

### **Publisher's Note**

The University of Pune has great pleasure in publishing the syllabus for the **T.Y.B.A.** Examination under the Faculty of Arts and Fine Arts.

It is hoped that this syllabus will be most useful to the students of this course.

On behalf of the University, I thank the experts and authorities of the University for their keen interest and whole-hearted co-operation in bringing out this publication.

University of Pune  
Ganeshkhind, Pune-411007.

**Dr. D. D. Deshmukh**  
Registrar



## T.Y.B.A. / 3

### CONTENTS

<i>Subject</i>	<i>Pages</i>
Introduction and General Rules	.. 5
1. Compulsory English	.. 17
2. Marathi	.. 18
3. Gujarathi	.. 33
4. Urdu	.. 34
5. Sindhi	.. 38
6. Hindi	.. 39
7. English	.. 87
8. Sanskrit	.. 108
9. Persian	.. 111
10. Arabic	.. 114
11. French	.. 115
12. German	.. 119
13. Russian	.. 128
14. Pali	.. 129
15. Ardhamagadhi	.. 130
16. Philosophy	.. 132
17. Psychology	.. 141
18. Education	.. 164
19. History	.. 169
20. Music	.. 181
21. Ancient Indian History, Culture and Archaeology	.. 205
22. Economics	.. 208
23. Politics	.. 233
24. Sociology	.. 244
25. Geography	.. 255
26. Linguistics	.. 281
27. Defence & Strategic Studies	.. 282
28. History of Civilization	.. 295

**T.Y.B.A. / 4**

	<i>Subject</i>	<i>Pages</i>
29.	Logic	.. 297
30.	Gandhian Thought	.. 300
31.	Home Economics	.. 303
32.	Anthropology	.. 312
33.	—	
34.	Applied Mathematics	.. 321
35.	Industrial Mathematics	.. 328
36.	Statistics	.. 338
37.	Mathematical Statistics	.. 355
38.	Applied Statistics	.. 362
39.	Mathematical Pre-Requisites	.. 367
40.	Statistical Pre-Requisites	.. 369
41.	Commerce	.. 371
42.	योगविद्या	.. 373
43.	Social Work	.. 375
44.	Public Administration	.. 380
45.	Home Science	.. 384
46.	Adult Education	.. 391
47.	N.S.S.	.. 399
48.	शारीरिक शिक्षण	.. 402

**T.Y.B.A. / 5**

**UNIVERSITY OF PUNE**

**Syllabi for the Three-Year Integrated B.A. Degree Course  
Third Year B.A.**

The B.A. degree course will consist of three years. The first year annual examination shall be held at the end of the First Year. The second year annual examination shall be held at the end of the second year. The third year annual examination shall be held at the end of the third year.

- (i) No candidate shall be admitted to enter upon the First Year B.A. Course unless he has passed the higher secondary school certificate examination of the Maharashtra State Board of Higher Secondary Education or an equivalent examination of any other statutory Board or University with English as a passing Subject.
- (ii) No candidate shall be admitted to the annual examination of the second year B.A. unless he has kept two terms satisfactorily for the same at the college affiliated to this University.
- (iii) No candidate shall be admitted to the annual examination of the second year B.A. unless he has kept two terms satisfactorily for the same at the college affiliated to this University.
- (iv) No candidate shall be admitted to third year examination of the B.A. Course unless he has passed in all the paper at the first year B.A. Examination and has satisfactorily kept the terms for the second year and also two terms for the third year of B.A. satisfactorily in a college affiliated to this University.

## T.Y.B.A. / 6

### Bachelor of Arts (B.A.)

- (1) The student joining the First Year B.A. Course shall offer six subjects as follows :
  - (i) The student can offer not more than one subject from one group.
  - (ii) Subject in Group 'A' is compulsory.
  - (iii) The student has to offer at least one language from Group 'B' or Group 'C' or Group 'J'.
  - (iv) The student may offer one more subject from Group 'B' of Group 'C' subject to (i) above.

The student may offer optional English From Group 'J' alone or in conjunction with one language From other Group 'B' or Group 'C'

Group 'A' ..	Compulsory English
Group 'B' ..	Marathi, French, German, Sindhi, Gujarathi, Urdu, Russian.
Group 'C' ..	Hindi, Persian, Sanskrit, Ardhamagadhi, Pali, Arabic.
Group 'D' ..	Economics.
Group 'E' ..	Politics.
Group 'F' ..	History, Cultural Anthropology.
Group 'G' ..	Logic and Methodology of Science, Geography, Music, Public Administration.
Group 'H' ..	Psychology, Gandhian Thoughts, Yoga.
Group 'I' ..	History of Civilization, Home Economics, Defence Studies, Social Work.

### **T.Y.B.A. /7**

Group 'J' .. Linguistics, Commerces, Education, Industrial Mathematics, Mathematical Statistics, Optional English.

Group 'K' .. Mathematics, Statistical Pre-requisites, Sociology, Philosophy.

Group 'L' .. Statistics, Applied Mathematics, Mathematical Pre-requisites, Applied Statistics, Ancient Indian History and Culture.

Group 'M' .. N.S.S., Adult Education.

(II) In the second year, the student shall decide whether he wants to study for the B.A. (General) or the B.A. (Special) degree:

(a) (i) The student studying for the B.A. (General) Degree shall study the following subjects in the Second Year :

(1) Compulsory English.

(2-6) Same five subjects offered in the First Year.

(ii) The student studying for the B.A. (General) Degree shall study the following subjects in the Third Year :

(1) Compulsory English.

(2-6) Same five subjects offered in the First and Second Years.

(b) (i) The student studying for the B.A. (Special) Degree shall study the following subjects in the Second Year :

### **T.Y.B.A. / 8**

- (1) Compulsory English.  
(2-4) One paper each at General level of the three subjects chosen out of the five subjects offered in the First Year.  
(5-6) Two papers at Special level of one subject chosen as a Special Subject out of the three subjects offered at General level.
- (ii) The student studying for the B.A. (Special) Degree shall study the following subjects in the Third Year :
  - (1) Compulsory English.  
(2-4) One Paper each at General Level of the three subjects offered in the Second Year.  
(5-6) Two Papers at the Special level of the subject chosen as a special subject in the Second Year.
- (c) Normally, students are not allowed to change the subject at the second or third year offered by him at the first year. However, as a very special case, a student may be allowed to offer a special subject at the second year even though he may not have offered the same at the first year. In such case he should have passed his first year examination in all the papers and he will have to complete the first year paper in that new subject at the second year before he goes to the third year. No change of subject will be allowed at the Third Year.



## **T.Y.B.A./9**

### **(III) Examinations :**

- (1) There shall be examination at the end of the First Year which shall be called Annual Examination. The Annual Examination of each subject will be of 100 marks.
- (2) The Annual Examination will be of three hours duration.

College where the practical examination centre is located will take the responsibility of arranging the practical examinations.

#### *Practical Examination*

- (3) The practical examination will be of 100 marks will be held only at the end of the year. There shall be no Term End Practical examination. The practical examination wherever laid down will be conducted before the commencement of the Annual (Theory) Examination. For Practice of appointing both internal examiners will continue.

For practical examination at second and third year B.Sc. both the examiners will be external.

The College where the practical examination centre is located, will take the responsibility of arranging the practical examination.

### **(IV) Standard of Passing :**

- (1) The candidate who has secured at least 40 marks out of 100 in the Annual examination shall be declared to have passed in the paper.
- (2) The candidate failing to secure 40 marks in the Annual examination shall have to appear for subsequent Annual examination in that paper.

### **T.Y.B.A. / 10**

- (3) The University shall conduct the Supplementary Annual Examination in October for Third Year papers only for the repeater student so as to enable him to save some time.
- (4) The students having the backlog of subject or subjects of the Second Year will be required to clear the same only in the next April/May Examination.

(V) *Award of Class :*

The class should be awarded to the student on the aggregate marks obtained by him at the First Year Examination. And, in respect of B.A. & B.Com. Degree on the aggregate marks in the Second Year and Third Year Examination and in respect of award of class shall be as follows :

- (1) Aggregate 70% and above..First Class with dist.
- (2) Aggregate 60% and above..First Class
- (3) Aggregate 55% and more..Higher Second Class but less than 60%
- (4) Aggregate 50% and more..Second Class but less than 60%
- (5) Aggregate 40% and more..Pass Class but less than 50%
- (6) Below 40%.. Fail

*University Terms :* The dates for the commencement and conclusion of the first and the second terms shall be determined by the University authorities. The terms can be kept by only duly admitted student. The present relevant ordinances pertaining to grant of terms will be applicable.

(iii) A candidate shall have the option of answering the question in any of the subjects other than languages either in Marathi or in English.

### T.Y.B.A. / 11

(iv) In the case of languages, question shall be answered in the media as indicated below except those questions which require translation into particular language.

<i>Languages</i>	<i>Media</i>
Sanskrit, Pali, Ardhamagadhi	.. The same language or English or Marathi
Persian	.. Persian, Urdu or English
Marathi, Gujarathi, Kannada, Urdu, Hindi, English	.. The same language.
French, German	.. The same language or English.

A candidate taking the courses for the B.A. first year or second year examination as the case may be, may be permitted by the Principal of the College to change any of the subjects in the course selected by him for particular year before the commencement of the second term. Such candidates are required to pay Rs.10/- towards change of subject fees to the University.

*Conditions :* (i) A candidate who has been permitted to enter upon the course for the second year B.A. examination wishing to change his optional subject or subject or subjects at the year examination in which he has failed shall be allowed to do so for that purpose. He will be required to keep two additional terms, for the changed subject for the first year and he will be required to appear and pass the subject by appearing at the Annual examination for the changed subject.

(ii) The candidate after having kept regular terms for the second year and admitted to third year will not be allowed to change the subject of the second year or the third year.

## **T.Y.B.A. / 12**

An application (which must be in the prescribed form and accompanied by the prescribed fee) for admission to any of the examinations of B.A. degree course shall be forwarded by a candidate to the Registrar through the Principal of the College attended by him on or before the prescribed date along with the certificate from the Principal (1) of this having attended the course and kept the terms according to provision of 0.67 and 0.72 in the various subjects and of having satisfied the other conditions laid down by the University and (2) of his being fit candidate for the examination.

(iii) No candidate shall be admitted to First Year of B.A. examination for the first time unless he produces a certificate from his Principal to the effect that he has attended at least 3/4th of the aggregate number of periods for physical training or has been exempted therefrom on the ground that (1) he is a member of the N.C.C. or (3) he has been regularly taking part as a member of the college team in the recognized fixtures of the major games.

The result of the first year examination shall be declared publically in two categories viz. (1) the candidate who has passed the first year examination and the candidate is allowed to proceed to second year.

In case of candidates allowed to proceed to second year course, the result of the first year examination shall be declared if and when they pass in the remaining subjects prior to their admission to the third year of the B.A.

A candidate who has passed in any other heads of passing shall not be allowed to appear in that head.

An Ex-student shall be allowed on a fresh application and payment of a fresh fee to appear at the subsequent examination in those heads of passing in which he has failed or in which he has previously not appeared without keeping any additional term.

### **T.Y.B.A. / 13**

A candidate who has failed at the B.A. degree examination and wishes to re-appear with the change in subject for any particular subject but in accordance with the bias of the subjects at the first year will be required to keep the additional requisite terms for the changed subject.

A candidate failing at the B.A. (Special) degree examination shall have option of appearing at the B.A. General degree examination subject to the provisions above. Such candidates will be eligible for a class, a prize, a scholarship, a medal or any other award.

A candidate failing at the B.A. (General) degree examination shall have option of appearing at the B.A. Special degree examination subject to above provision. Such candidates shall be eligible for a class, a prize, a scholarship, a medal or any other award.

A candidate who has once passed the B.A. general or the B.A. special degree examination of this University shall be permitted on the submission of fresh application and the payment of fresh fee to appear again at the B.A. degree examination.

(1) In any number of courses for one or two papers for the B.A. general examination subject to bias of the papers at the first year and provided he keeps four additional terms in those subjects, (2) in the special papers, at the second year and third year of a special subject at the B.A. Special examination in which he has not already passed the B.A. examination subject to bias of the subjects at the first year provided he selects at his special subject one of the general subjects he has offered at the B.A. general degree examination.

and

He keeps four additional terms for that special subject.

#### **T.Y.B.A. / 14**

A candidate appearing under this regulation will not be eligible for a degree or a class or a prize or any other award. A candidate passing in this manner shall be awarded a certificate to that effect.

(i) A candidate who has once passed the B.A. Degree examination of this University or an examination of any other statutory University of Examining Body recognized as equivalent thereof shall be allowed to appear again for the same examination provided he offers the subject different from those in which he has already passed and keeps four terms in a college affiliated to this University. Such candidate will be required to appear in a different subject or general subjects.

(ii) A candidate who takes the B.A. degree examination in accordance with the provisions stated (i) above, shall not be eligible for degree or class.

(iii) The external candidates appearing for different subjects optional papers are not required to keep the terms in the affiliated colleges. They are however, required to register their names under above provisions afresh for the respective year of examination.

No candidate shall be admitted to the first year of B.A. external examination under 85 pattern unless he (1) has passed the H.S.C. examination of the Maharashtra State Board or its equivalent examination. (2) has registered himself as an external candidate for the first year of the B.A. examination within the prescribed time limit without late fees and with late fees of the previous calendar year. No forms will be accepted in any case after the prescribed time limit.

A candidate receiving an official intimation of registration as an external candidate and wishing to appear for examination in the subject concerned must forward to the Registrar his application in the prescribed form together with the prescribed fee for admission to the examination on or before the prescribed date.

## **T.Y.B.A. / 15**

The courses of study, the syllabi and the standard for passing at the examination for the Degree of Bachelor of Arts external shall be identical with those for the examination for the degree of Bachelor of Arts but an external candidate shall not offer for his examination any subjects which involve practical work in a laboratory or keeping of journals or subjects notified by the Registrar at the beginning of each academic year.

The external candidates are required to appear for the annual examinations, the question paper will be of 80 marks and mark obtained by the candidates will be converted into marks obtained out of 100.

### **EXTERNAL CANDIDATE**

(1) The registration as an external candidate for an examination shall be open to (a) those who are citizens of India and residing within India in the academic year in which they have applied for registration as an external student and have passed qualifying examination of this University or of any statutory University or of Body which (examination) has been recognized by the Pune University for the purpose of admission to its respective course. (b) The medium of instructions shall be Marathi and English only. (c) Candidates from outside Maharashtra State should produce at the time of registration an endorsement certificate about their residence in India and a certificate of service or carrying on business, from a Magistrate not below the rank of First Class Judicial Magistrate. (d) Foreigners are not allowed to register their names for the external examinations of this University.

The candidates passing the B.Com. or B.Sc. examinations of this University or any other statutory University can be admitted to second year of B.A. Course. The result of such candidates will be declared on the basis of the performance at second and third year of the B.A. Course of this University.

**T.Y.B.A. / 16**

When such candidate desires to register himself as an external student, he may apply accordingly to the University within the stipulated time and in the prescribed form.

The candidate who has completed first year or second year of B.A. as an external student shall not be registered/ admitted as an internal student for the remaining part of the course.

The student may offer Optional English from Group J alone or in combination with one language from either Group B or Group C, he shall not offer under any circumstances more than two languages from Group B, C and J.



## **(1) Compulsory English**

**(1996-97, 1997-98, 1998-99)**

Text Books for T.Y.B.A. Compulsory English General English Paper-III, Special Paper-III and IV.

Compulsory English

- (1) Animal Farm .. George Orwel (Orient Longman)
- (2) Saint Joan .. (G.B.Shaw (Orient Longman)
- (3) Success with Grammar and Composition (Units 2, 6, 9 and 12 only) :  
K. R. Narayanswamy (Orient Longman)

### **T.Y.B.A. English Compulsory**

Total marks : 100 (Duration 3 hours)

No. of Questions Five. All questions carry equal marks.

- Q. 1. Saint Joan : Long Answer type (a,b, c)
- Q. 2. Animal Farm : Long Answer type (a, b, c,)
- Q. 3. (a) Saint Joan : Short note (one out of three).  
(b) Animal Farm : Short note (one out of three).
- Q. 4. Grammar Prescribed from 'Success with Grammar' by Narayanswamy.
  - (a) Do as Directed (5 only)
  - (b) Fill in the Blanks (5 only)
  - (c) Transformation (5 only)
  - (d) Reported Speech (5 only)
- Q. 5. Essay of about 500 words on any one of the given topics.

OR

Precis Writing—A Passage of about 450 words.

## (२) मराठी (सामान्यस्तर)

### आधुनिक मराठी वाङ्मय (प्रश्नपत्रिका क्र. ३)

#### अभ्यासक्रमाची उद्दिष्टे

- (१) आधुनिक मराठी साहित्यातील विविध वाङ्मयप्रकारांचा परिचय वाढविणे. त्यांचे आकलन करून घेणे व वाङ्मयाबद्दलची आभिरुची जागृत होऊन कलाकृतींचा आस्वाद घेण्याची क्षमता निर्माण करणे.
- (२) नेमलेल्या कलाकृतीच्या संदर्भात साहित्यपरंपरेचे स्थूल भान देणे.
- (३) भाषेचे यथोचित आकलन करण्याची व वापर करण्याची यथायोग्य क्षमता निर्माण करणे.

#### अभ्यासक्रम

- (अ) कादंबरी-शापित-अरुण साधू
- (ब) वैचारिक लेखसंग्रह-प्रबोधनातील पाऊलखुणा, संपादक-निर्मलकुमार फडकुले
- (क) नाटक-कमला-लेखक विजय तेंडुलकर
- (ड) कविता-कोंडवाडा-कवी दया पवार

#### पुरवणी संदर्भग्रंथांची यादी

तृतीय वर्ष साहित्य मराठी (सामान्यस्तर) आधुनिक मराठी वाङ्मय कोंडवाडा :

- (१) निळी पहाट-रा. ग. जाधव, श्रीविद्या प्रकाशन, पुणे.
- (२) दलित कविता-डॉ. म. सु. पाटील, लोकवाङ्मयगृह, प्रा. लि. पुणे.
- (३) समकालीन साहित्य : द. भि. कुलकर्णी गौरवग्रंथ : प्रवृत्ती आणि प्रवाह-विजय प्रकाशन, नागपूर.
- (४) दया पवार यांच्या साहित्याचा अभ्यास-ले. भास्कर खांडगे दलित कविता : एक दर्शन-डॉ. ललिता कुंभोजकर, प्रतिमा प्रकाशन, पुणे.

**T.Y.B.A. / 19**

- (५) लेणी-गंगापूर पानतावणे, प्रतिमा प्रकाशन, पुणे.  
(६) दलित साहित्य, वेदना आणि विद्रोह-भालचंद्र फडके, श्रीविद्या प्रकाशन, पुणे.  
(७) दलित साहित्य : दिशा आणि दिशांतर-दत्ता भगत, अभय प्रकाशन, नांदेड.  
(८) दलित साहित्य : प्रेरणा आणि स्वरूप-डॉ. वसंत डोळस, दिलीपराज प्रकाशन, पुणे.  
(९) दया पवार : साहित्यिक, माणूस आणि मित्र-मिलिंद कसबे, दिघे, झोत प्रकाशन.  
(१०) दलित साहित्याचे सौंदर्यशास्त्र-डॉ. शरणकुमार लिंबाळे, कांत प्रकाशन, बार्शी.

कमला :

- (१) तेंडुलकरांची नाटके-चंद्रशेखर बर्वे, राजहंस प्रकाशन, पुणे.  
(२) मध्यमवर्गीयांचे नाटककार-विजय तेंडुलकर, रुची दिवाळी अंक, ९०.  
(३) स्वातंत्र्योत्तर मराठी नाटक-वि. भा. देशपांडे, व्हीनस प्रकाशन, पुणे.  
(४) स्त्रीसमस्या आणि आजचे नाटक-डॉ. मधुरा कोरान्ने, स्नेहवर्धन, पुणे.

**तृतीय वर्ष कला मराठी (सामान्य स्तर)**

**आधुनिक मराठी वाङ्मय**

१. कादंबरी :  
(नेमलेल्या कादंबरीवर दीर्घोत्तरी प्रश्न/अंतर्गत पर्यायांसह विविध अभ्यास-घटकांशी संबंधित) (गुण २०)
२. नाटक (शोकांतिका) :  
(नेमलेल्या नाटकावर दीर्घोत्तरी प्रश्न/ अंतर्गत पर्यायांच्या विविध अभ्यास-घटकांशी संबंधित) (गुण २०)
३. वैचारिक गद्य :  
(नेमलेल्या वैचारिक गद्य लेखसंग्रहावर दीर्घोत्तरी प्रश्न (अंतर्गत पर्यायांसह विविध अभ्यास-घटकांशी संबंधित) (गुण २०)

**T.Y.B.A. / 20**

४. अर्वाचीन काव्य :  
(नेमलेल्या अर्वाचीन काव्यसंग्रहावर दीर्घोत्तरी प्रश्न/  
अंतर्गत पर्यायासह विविध अभ्यास-घटकांशी संबंधित) (गुण २०)
५. लघूत्तरी प्रश्न :  
(नेमलेल्या चारही पुस्तकांवर आधारित किमान चारपैकी  
दोन विषयांवर टीपालेखन) (गुण २०)

**तृतीय वर्ष साहित्य : मराठी विशेषस्तर (स्पेशल)**

**प्रश्नपत्रिका क्र. ३ : १ साहित्यविचार**

**अभ्यासक्रम**

**१. साहित्याचे स्वरूप**

शास्त्रीय वाङ्मय आणि साहित्य यांमधील फरक, साहित्याचे शब्दरूप, साहित्यातून व्यक्त होणाऱ्या अनुभवांचे विशेष, वास्तव आणि कल्पित यांचा संबंध, संवेदनात्मकता, भावनात्मकता, वैचारिकता, सेंद्रियत्व (ऑर्गॅनिक फॉर्म) सूचकता, विशिष्टता आणि विश्वत्मकता.

**२. साहित्याचे प्रयोजन**

प्रयोजन म्हणजे काय? स्वरूप व प्रयोजन यांचा परस्परसंबंध, प्रयोजन व परिणाम यांमधील भेद, यश, अर्थ, आत्माविष्कार, स्वप्नरंजन, विरेचन, जिज्ञासातृप्ती, उद्धोधन, प्रचार मनोरंजन, अनुभवविश्वाची समृद्धी, स्वरूपनिष्ठा, (Fidelity to its own nature) या साहित्याचा प्रयोजनांचा लेखकांच्या व वाचकांच्या दृष्टिने विचार-वरील साहित्यप्रयोजनांचा कलावादी व जीवनावादी भूमिकेतून विचार.

**३. साहित्याची निर्मितीप्रक्रिया**

साहित्यातील नवनिर्मितीचे स्वरूप, साहित्यनिर्मितीच्या शक्ति-प्रतिभा, कल्पनाशक्ती, चमत्कृतीशक्ती, स्फूर्ती वा संकल्पनांचे स्वरूप व कार्य प्रतिभाव्यापार व स्वप्नव्यापार-साहित्यिकाचे व्यक्तिमत्त्व, संवेदनक्षमता, शैशववृत्ती, अनुभवसमृद्धी, विद्वत्ता, जीवनविषयक व साहित्यविषयक दृष्टिकोण यांचे साहित्यनिर्मितीतील स्थान.

४. साहित्याची भाषा

व्यवहारभाषा, शास्त्रीय वाङ्मयाची भाषा आणि साहित्याची भाषा यांतील फरक, भाषा हे साहित्याचे माध्यम की साधन? शब्दार्थाचा वक्रव्यापार, भाषेचे नादरूप, अलंकार, रूपक, प्रतिमा, प्रतीक, प्राक् कथा या संकल्पनांचे स्थूल स्पष्टीकरण आणि त्यांचे साहित्यातील स्थान, शैलीसंबंधी स्थूल चर्चा-लेखक तशी शैली, आशय तशी शैली, साहित्यप्रकार तशी शैली, बोलीभाषेचा उपयोग.

५. साहित्याचा आस्वाद

आस्वाद म्हणजे काय? आस्वादकाला आवश्यक असणारे गुण, आस्वादप्रक्रिया, आस्वादातील अडथळे, आस्वादातील आनंदाचे स्वरूप (स्थूलपणे).

६. साहित्याची सामाजिकता

साहित्य आणि समाज यांचे परस्परसंबंध, लेखकाची सामाजिकता, भाषेची सामाजिकता, कलात्मकता, अनुभवातील सामाजिकता, वाचकाची सामाजिकता, साहित्यातील सामाजिकतेला वैश्विक रूप प्राप्त होते काय? बांधिलकीची संकल्पना व साहित्यिकाची बांधिलकी.

७. वाङ्मयीन अभिरुची

वाङ्मयीन अभिरुची म्हणजे काय? अभिरुची आणि सौंदर्यदृष्टी, अभिरुची आणि औचित्य, अभिरुची-भिन्नतेची कारणे, अभिरुची नियत करणारे घटक-सांस्कृतिक पर्यावरण, आर्थिक पर्यावरण, वाङ्मयीन पर्यावरण.

८. साहित्यप्रकाराची संकल्पना

साहित्याच्या वर्गीकरणाची शक्यता व आवश्यकता, साहित्याच्या वर्गीकरणाची तत्त्वे-माध्यमभिन्नता, प्रस्तुतीकरणाची पद्धती, प्रस्तुतीकर्त्याचा दृष्टिकोण व प्रस्तुतीकरणातील काळ, साहित्याचे ठळक प्रकार-काव्य, कादंबरी व नाटक.

**T.Y.B.A. / 22**

**(अ) अध्यापनाची उद्दिष्टे**

१. साहित्यविषयक काही मूलभूत सिद्धान्तांचे ज्ञान मिळविणे.
२. साहित्याचा आस्वाद-आकलन व मूल्यमापन यांकडे पाहण्याची दृष्टी संपादन करणे.
३. साहित्य व त्यांचे पर्यावरण यांचे संबंध समजावून घेणे.

**(आ) घटक विश्लेषण**

**(१) साहित्याचे स्वरूप**

१. शास्त्रीय वाङ्मय आणि साहित्य यांमधील फरक.
२. साहित्याचे शब्दरूप.
३. साहित्यातून व्यक्त होणाऱ्या अनुभवांचे विशेष- वास्तव आणि कल्पित यांचा संबंध, संवेदनात्मकता-भावनात्मकता-वैचारिकता ही अंगे, सेंद्रियत्व (ऑर्गॅनिक फॉर्म), सूचकता, विशिष्ट आणि विश्वात्मकता ही वैशिष्ट्ये.

**(२) साहित्याचे प्रयोजन**

१. प्रास्ताविक-प्रयोजन म्हणजे काय? स्वरूप व प्रयोजन यांचा परस्परसंबंध, प्रयोजन व परिणाम यांमधील भेद.
२. साहित्याची प्रयोजने – यश, अर्थ, आत्माविष्कार, स्वप्नरंजन, विरेचन, जिज्ञासातृप्ती, उद्धोधन, प्रचार, मनोरंजन, अनुभव-विश्वाची समृद्धी (Enrichment of experience), स्वरूपनिष्ठ (Fidelity to its own nature).
३. या प्रयोजनांचा लेखकाच्या व वाचकाच्या दृष्टीने दुहेरी विचार.
४. या प्रयोजनांचा कलावादी व जीवनावादी या भूमिकांतून विचार.

(३) साहित्याची निर्मितीप्रक्रिया

१. साहित्यातील नवनिर्मितीचे स्वरूप.
२. साहित्यनिर्मितीच्या शक्ती-प्रतिभा, कल्पनाशक्ती, स्फूर्ती या संकल्पनांचे स्वरूप व कार्य.
३. प्रतिभाव्यापार व स्वप्नव्यापार.
४. साहित्यिकाचे व्यक्तिमत्त्व, संवेदनक्षमता, शैशववृत्ती, अनुभव-समृद्धी, विद्वत्ता, जीवनविषयक व साहित्यविषयक दृष्टिकोण यांचे साहित्यनिर्मितीतील स्थान.

(४) साहित्याची भाषा

१. व्यवहारभाषा, शास्त्रीय वाङ्मयाची भाषा आणि साहित्याची भाषा यांतील वेगळेपणा.
२. शब्दार्थाचा वक्रव्यापार-भाषेचे नादरूप, अलंकार, रूपक, प्रतिमा, प्रतीक प्राक्कथा या संकल्पनांचे स्थूल स्पष्टीकरण आणि त्यांचे साहित्यातील स्थान.
३. शैलीसंबंधी स्थूल चर्चा-लेखक तशी शैली, आशय तशी शैली, साहित्यप्रकार तशी शैली, शैलीच्या संदर्भात साहित्यात वापरल्या जाणाऱ्या बोलीभाषेचा विचार.

(५) साहित्याचा आस्वाद

१. आस्वाद म्हणजे काय?
२. आस्वादकाला आवश्यक असणारे गुण
३. आस्वादप्रक्रिया
४. आस्वादातील अडथळे
५. आस्वादातील आनंदाचे स्वरूप (स्थूलपणे).

(६) साहित्याची सामाजिकता

१. साहित्य आणि समाज यांचे परस्परसंबंध
२. लेखकाची सामाजिकता
३. भाषेची सामाजिकता
४. कलात्मक अनुभवातील सामाजिकता
५. वाचकाची सामाजिकता.
६. साहित्यातील सामाजिकतेला वैश्विक रूप प्राप्त होते काय?
७. बांधिलकीची संकल्पना व साहित्यिकाची बांधिलकी.

**T.Y.B.A. / 24**

**(७) वाङ्मयीन अभिरुची**

१. वाङ्मयीन अभिरुची म्हणजे काय?
२. अभिरुची आणि सौंदर्यदृष्टी.
३. अभिरुची आणि औचित्य.
४. अभिरुची-भिन्नतेची कारणे.
५. अभिरुची नियत करणारे घटक-सांस्कृतिक पर्यावरण, आर्थिक पर्यावरण, वाङ्मयीन पर्यावरण.

**(८) साहित्यप्रकाराची संकल्पना**

१. साहित्याच्या वर्गीकरणाची शक्यता
२. साहित्याच्या वर्गीकरणाची आवश्यकता.
३. साहित्याच्या वर्गीकरणाची तत्त्वे-माध्यमभिन्नता, प्रस्तुतीकरणाची पद्धती, प्रस्तुतीकर्त्याचा दृष्टिकोण व प्रस्तुतीकरणातील काळ.
४. साहित्याचे ठळक प्रकार-काव्य, कादंबरी व नाटक.

**(इ) संदर्भ-साहित्य :**

१. साहित्यविचार-डॉ. अ. वा. कुलकर्णी, प्रतिमा प्रकाशन, पुणे.
२. साहित्य स्वरूप आणि समीक्षा-वा. ल. कुलकर्णी, पॉप्युलर प्रकाशन, पुणे.
३. काव्यशास्त्र प्रदीप-डॉ. स. रा. गाडगीळ, मोघे प्रकाशन, कोल्हापूर.
४. वाङ्मयीन शैली आणि तंत्र-म. दा. हातकणंगलेकर, मेहता प्रकाशन, कोल्हापूर.
५. साहित्यविचार-भालचंद्र खांडेकर, अनमोल प्रकाशन, पुणे.
६. साहित्य आणि सामाजिक संदर्भ-सा. ग. जाधव, काँटिनेंटल प्रकाशन, पुणे.
७. साहित्य आणि समाज-संपादक डॉ. विलास खोले, गोखले एज्युकेशन सोसायटी, नाशिक.
८. साहित्य आणि सामाजिक संदर्भ-डॉ. अंजली सोमण, प्रतिभा प्रकाशन, पुणे.



## T.Y.B.A. / 25

९. साहित्यविचार आणि समाजचिंतन-भा. शं. भणगे, ओरिएंटल लॉगमन लिमिटेड.
१०. वाङ्मयीन आकलन-रा. म. जाधव, पॉप्युलर प्रकाशन, मुंबई.
११. मराठी वाङ्मयाभिरुचीचे विहंगमावलोकन-रा. श्री. जोग, पुणे विद्यापीठ.
१२. वाङ्मयप्रकाराची संकल्पना (लेख)-डॉ. मिलिंद मालशे, अनुष्टुभ, सप्टेंबर, ऑक्टोबर, १९८३.
१३. साहित्याचे तत्त्वज्ञान-डॉ. वि. मा. ढवळे, कॉटिनेंटल प्रकाशन, पुणे.
१४. रा. श्री. जोग, गौरवग्रंथ-संपादक : गोखले, भावे, पाध्ये, व्हीनस प्रकाशन, पुणे.
१५. परंपरा आणि नवता-डॉ. सुधीर रसाळ, मौज प्रकाशन.
१६. साहित्यसिद्धान्त-डॉ. स. ग. मालशे (अनुवादक), महाराष्ट्र राज्य साहित्य मंडळ, मुंबई.

### तृतीय वर्ष कला मराठी (विशेष स्तर) २

#### प्रश्नपत्रिका क्रमांक-४

#### साहित्यविचार

१. एकूण पाच प्रश्न असावेत.
२. सर्व प्रश्नांना समान गुण असतील.
३. प्रत्येक प्रश्नांस अंतर्गत पर्याय राहिल.
४. एक प्रश्न लघूत्तरीस्वरूपाचा (अंतर्गत पर्यायासह).

#### मराठीचा भाषिक अभ्यास

#### अभ्यासक्रम

१. भाषा स्वरूप व कार्य, भाषेच्या अभ्यासाचे महत्त्व, भाषाभ्यासाची प्रमुख अंगे, ध्वनिविचार, व्याकरण, अर्थविचार, शब्दसंग्रह, भाषाविज्ञानाच्या प्रमुख शाखा.

**T.Y.B.A. / 26**

२. स्वनविज्ञान.
३. स्वनिमसंकल्पना आणि मराठीची स्वनिम-व्यवस्था.
४. स्वनिम लेखनाच्या संदर्भातील प्रश्न.
  - ४.१ मराठी स्वरांचे-ह्रस्वदीर्घत्व.
  - ४.२ मराठी स्वनिमांचे देवनागरीतील लेखन.
  - ४.३ मराठी शुद्धलेखनाचे वर्तमान नियम.
५. रूपिमसंकल्पना आणि मराठीची रूपिम-व्यवस्था
६. वाक्यविन्यास आणि अर्थविन्यास या भाषावैज्ञानिक संकल्पनांचा मराठीच्या संदर्भात स्थूल परिचय.
७. मराठीच्या संदर्भात विशेषत्वाने करावयाचा विचार.
८. प्रमाणभाषा आणि बोली यांमधील परस्परसंबंध व मराठीच्या प्रमुख बोली यांचा परिचय.

**अध्ययनाची उद्दिष्टे**

१. भाषा म्हणजे काय व तिचे मानवी जीवनातील कार्य कोणते ते समजून घेणे.
२. भाषेच्या अभ्यासाची अंगे, स्वरूप, कार्य व महत्त्व जाणून घेणे.
३. भाषाविज्ञानाच्या प्रमुख शाखांचा परिचय करून घेणे.
४. मराठीचा स्वनिमविन्यास, रूपविन्यास आणि अर्थविन्यास समजून घेणे.
५. मराठी स्वनिमांचे देवनागरी लेखन करताना येणाऱ्या अडचणी समजून घेणे.
६. शुद्धलेखनामागील भूमिका समजून घेऊन मराठी शुद्धलेखनाच्या वर्तमान नियमांचा परिचय करून घेणे.
७. मराठीच्या संदर्भातील विशेषत्वाने उपस्थित होणाऱ्या प्रश्नांची माहिती करून घेणे.
८. प्रमाणभाषा व बोली यांमधील परस्परसंबंध व मराठीच्या प्रमुख बोली यांचा परिचय करून घेणे.

**घटक विश्लेषण (अभ्यासक्रमांचा तपशील)**

**१. भाषेचे स्वरूप व कार्य**

भाषेच्या अभ्यासाचे महत्त्व, भाषाभ्यासाची मुख्य अंगे : ध्वनिविचार, व्याकरण, अर्थविचार, शब्दसंग्रह.

भाषाभ्यासाच्या पद्धती/शाखा

वर्णनात्मक (एककालिक), ऐतिहासिक (द्वैकालिक), तुलनात्मक.

**२. स्वनविज्ञान**

स्वनविज्ञानाचे स्थूल स्वरूप, स्वननिर्मितीची प्रक्रिया, वागिन्द्रिये रचना व कार्य, स्वनांचे वर्गीकरण-स्थानपरत्वे व प्रयत्नपरत्वे.

**३. स्वनिमसंकल्पना आणि मराठीची स्वनिम-व्यवस्था**

स्वनिमनिश्चितीचे तत्त्व, विनियोग-संकल्पनेचा स्थूल परिचय, स्वनस्वनमस्वनांतर यांमधील परस्परसंबंध, मराठी स्वनिम-व्यवस्थेची रूपरेषा, स्वरस्वनिम, अर्धस्वरस्वनिम, व्यंजनस्वनिम त्यांचे वर्गीकरण.

**४. स्वनिम लेखनाच्या संदर्भातील प्रश्न**

मराठी स्वरांचे ऋस्वदीर्घ (स्वनिमिकदृष्ट्या व लेखनदृष्ट्या) मराठी स्वनिमांचे देवनागरी लिपीत करताना जाणवणाऱ्या अडचणी, शुद्धलेखनाची संकल्पना व वर्तमान मराठीचे शुद्धलेखनविषयक नियम.

**५. रूपविन्यास**

रूपिमचे तत्त्व, रूपिका-रूपिस आणि रूपिकानतप यांमधील परस्परसंबंध, रूपिमांचे प्रकार प्रकृति (धातू) आणि प्रत्यय यांचे वर्गीकरण (आशयबोधक रूपिम आणि कार्मकर रूपिम)

**६. वाक्यविन्यास आणि अर्थविन्यास**

वाक्यविन्यास संकल्पना आणि मराठीतील वाक्यविन्यास व्यवस्था पद (शब्द), पदसमूह (शब्दबंध), उपवाक्ये व वाक्य यांची स्थूल ओळख, अर्थविन्यास व मराठीतील त्यांचे स्वरूप, अर्थ ही संकल्पना अर्थनिश्चितीमागील भूमिका, शब्दनिष्ठ अर्थ, वाक्यनिष्ठ अर्थ.

**T.Y.B.A. / 28**

७. **मराठीच्या संदर्भात खालील विषयांची चर्चा**  
शब्दांच्या जातींची पुनर्व्यवस्था, विभक्तीविषयक वाद, आख्यात व प्रयोग.
८. **प्रमाणभाषा आणि बोली यांच्या परस्परसंबंधांचा विचार**  
मराठीच्या पुढील बोलींचा परिचय-कोकणी, अहिराणी, वऱ्हाडी, नागपुरी.

**संदर्भ ग्रंथ सूची**

१. मराठीचा भाषिक अभ्यास - संपादक डॉ. मु. श्री. कानडे, स्नेहवर्धन प्रकाशन, पुणे.
२. भाषाविज्ञान वर्णनात्मक व ऐतिहासिक - संपादक मालशे, इनामदार, सोमण, संजय प्रकाशन, पुणे.
३. वर्णनात्मक भाषाविज्ञान स्वरूप व पद्धती - संपादक काळे, सोमण, गोखले, एज्युकेशन सोसायटी प्रकाशन, नाशिक.
४. भाषा व संस्कृती - ना. गो. कालेलकर, मौज प्रकाशन, मुंबई.
५. ध्वनिविचार - ना. गो. कालेलकर, मौज प्रकाशन, मुंबई.
६. अभिनव भाषाविज्ञान - डॉ. ग. ना. जोगळेकर, सुविचार प्रकाशन, पुणे.
७. भाषाविज्ञान परिचय - मालशे, सोमण, पुंडे.
८. वर्णनात्मक भाषाविज्ञान - डॉ. लीला गोविलकर, आरती प्रकाशन, डोंबिवली.
९. भाषाशास्त्र विचार - डॉ. र. बा. मंचरकर, युनिव्हर्सल प्रकाशन, कोल्हापूर.
१०. शुद्धलेखन प्रदीप - मो. रा. वाळिंबे, राणे प्रकाशन, पुणे.
११. शुद्धलेखन विवेक - द. ना. गोखले, सोहम प्रकाशन, पुणे.
१२. मराठी साहित्य महामंडळाचे लेखनविषयक नियम (पुस्तिका).
१३. मराठी भाषेचा आर्थिक संसार - अ. रा. केळकर, मराठवाडा साहित्य परिषद, औरंगाबाद.
१४. वैखरी - अ. रा. केळकर, मॅजेस्टिक प्रकाशन, पुणे.
१५. भाषा-अंतःसूत्र आणि व्यवहार - संपादक मु. ग. पानसे, महाराष्ट्र साहित्य परिषद प्रकाशन, पुणे.

**T.Y.B.A. / 29**

१६. भाषा आणि साहित्य - संशोधन खंड १, २, ३ - महाराष्ट्र साहित्य परिषद प्रकाशन, पुणे.
१७. अर्वाचीन मराठी -डॉ. रमेश धोंगडे, महाराष्ट्र ग्रंथनिर्मिती मंडळ, कॉटिनेंटल प्रकाशन, पुणे.
१८. मराठीच्या प्रमाणभाषेचे स्वरूप - सुहासिनी लहू.
१९. सुलभ भाषा विज्ञान - संपादक डॉ. दत्तात्रय पुंडे, स्नेहवर्धन प्रकाशन, पुणे.
20. A Course in Modern Linguistics–Hocket.
21. A General Linguistics–Robins R. W.
22. A Course in General Linguistics–Saussure F. D.
23. Phonetics–Pike Kenneth.
24. Introductory Linguistics–Lale Robert A.
25. An Introduction to Descriptive Linguistics–Gleason H. A.
26. What is Linguistics–Crystal David.
27. Language–Sapir Edward.
२८. मराठीच्या व्याकरणाचा पुनर्विचार - अरविंद मंगळूरकर.
२९. मराठी व्याकरणाचा इतिहास - २५ अर्जुनवाडकर, कृ. श्री.
३०. मराठीचे व्याकरण - लीला गोविलकर, मेहता प्रकाशन.

**प्रश्नपत्रिका स्वरूप व गुणविभागणी**

१. एकूण पाच प्रश्न असावेत.
२. सर्व प्रश्नांना समान गुण असतील (प्रत्येकी २०)
३. प्रत्येक प्रश्नास अंतर्गत पर्याय राहिल.
४. एक प्रश्न लघूत्तरी स्वरूपाचा (अंतर्गत पर्यायासह).

**पर्यायी अभ्यासक्रम**

**व्यावहारिक व उपयोजित मराठी  
तृतीय वर्ष साहित्य - मराठी**

**उद्दिष्टे**

१. संज्ञापनातील भाषेची भूमिका, विविध भाषिक आविष्कारांचे स्वरूप समजावून घेणे, भाषिक कौशल्ये, क्षमता विकसित करणे.

## T.Y.B.A. / 30

२. भाषिक कौशल्याचे विविध आविष्कार आणि संपर्कमाध्यमे यांचा परस्परसंबंध समजावून घेणे व उपयोजन करणे.
३. मराठीचा कार्यालयीन, व्यावसायिक कामकाजात होणारा वापर, गरज व स्वरूपविशेषांची माहिती घेणे.
४. कार्यालयीन/व्यावसायिक भाषा व्यवहारासाठी आवश्यक लेखनकौशल्याचे संपादन व उपयोजन करणे.

### अभ्यासक्रम

#### पहिली सहामाही

१. विविध प्रसारमाध्यमांची (वृत्तपत्रे, आकाशवाणी व दूरदर्शन) ओळख. सामर्थ्य व मर्यादा - प्रसारमाध्यमाद्वारे साधला जाणारा जनसंपर्क जनमानसावर होणारा परिणाम, प्रसारमाध्यमासाठी लेखन स्वरूप, तंत्रे व कौशल्ये, प्रसारमाध्यमातील भाषेचे स्वरूप, वेगळेपणा.
२. वृत्तपत्रांसाठी लेखन-बातमी, वृत्तलेख (फीचर), स्तंभलेख, स्फुटलेख, अग्रलेख, परीक्षण, मुलाखत.
३. प्रसारमाध्यमातील जाहिरातींचे लेखन - या जाहिरातींतील मराठी भाषेचे स्थान. जाहिरात-स्वरूप व मांडणी, जाहिरातींचे घटक-मथळा, उपमथळा, जाहिरातींचा मसुदा-घोषवाक्य इ. प्रभावी जाहिरातींचे रसग्रहण, जाहिरात लेखन.

#### दुसरी सहामाही

४. आकाशवाणीसाठी लेखन :  
भाषण, मुलाखत, रूपक, संवाद, बातम्यांचे लेखन-विशेष वृत्तान्ताचे लेखन-श्रुतिका, नभोनाट्य रूपांतर, शैक्षणिक कार्यक्रमांचे लेखन, इ.
५. दूरदर्शनसाठी लेखन :  
दूरदर्शन माध्यमाचे वेगळेपण - तांत्रिक माहिती, दृश्यभाषा-भाषण, मुलाखत, संवाद, बातम्या-निवेदन, सूत्रसंचालन, माहितीपट, रूपक (स्थूलदर्शनात्मक, व्यक्तिदर्शनात्मक, माहितीपर इ.), लघुपट, नाटक, मालिका इत्यादींसाठी लेखन.

**स्वाध्याय**

१. एकाच घटनेबद्दल विविध वृत्तपत्रांत आलेल्या बातम्यांचे संकलन.
२. कार्यक्रमांना उपस्थित राहून त्यांवर विविध माध्यमांसाठी बातमी लेखन करणे.
३. वर्तमानपत्रांतील आकर्षक वृत्तलेखकांचे तसेच स्फुट-अग्रलेख व परीक्षकांची कात्रणे काढून परिशीलन करणे.
४. विविध माध्यमांसाठी प्रत्यक्ष मुलाखत घेणे.
५. आकाशवाणीवरील बातम्या ऐकून त्यांचे पुनर्लेखन.
६. सभोवतालच्या घडामोडी, कार्यक्रम आकाशवाणीसाठी बातमीपत्र तयार करणे.
७. वर्तमानपत्रांच्या बातम्यांच्या आधारे आकाशवाणीसाठी जिल्ह्याचे वार्तापत्र लिहिणे.
८. आकाशवाणीचे विविध कार्यक्रम ऐकणे.
९. दूरदर्शनवरील बातम्या, चर्चा व अन्य माहितीपर कार्यक्रमांचे अवलोकन.
१०. वर्तमानपत्रांतील बातम्यांच्या आधारे दूरदर्शनसाठी जिल्ह्याचे वार्तापत्र लिहिणे.
११. परिसरातील वैशिष्ट्यपूर्ण स्थलांवर माहितीपटाचे लेखन.
१२. विविध माध्यमांतील जाहिरातींचे नमुने संगृहित करून अभ्यासणे.

**संदर्भ पुस्तके**

१. प्रथमवर्ष वाणिज्य व द्वितीय वर्ष विज्ञान व्यावहारिक मराठी पाठ्यपुस्तक - पुणे विद्यापीठ प्रकाशन.
२. व्यावहारिक मराठी : काळे कल्याण व पुंडे द. दि. - निराली प्रकाशन.
३. व्यावहारिक मराठी - नसिराबादकर, ल. रा.
४. माध्यम चित्रवाणी - ले. आकाशानंद, ग्रंथघर प्रकाशन, मुंबई.
५. वृत्तपत्र तत्त्वज्ञान - डॉ. सुधाकर पवार, महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.
६. वार्तासंकलन - चंद्रकांत ताम्हाणे, पॉप्युलर प्रकाशन, पुणे.

**T.Y.B.A. / 32**

७. व्यावहारिक मराठी - प्रकाश परब.
८. उपयोजित अभ्यासक्रम : मराठी भाषेची संवादकौशल्ये - यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ.

**गुण विभागणी**

१. प्रसारमाध्यमातील भाषेचे स्वरूप इत्यादी.  
(विवेचनात्मक स्वरूपाचे उत्तर अपेक्षित/अंतर्गत पर्याय द्यावा.)  
(गुण २०)
२. वृत्तपत्रीय लेखन :  
(उपयोजित स्वरूपाची उत्तरे अपेक्षित/अंतर्गत पर्याय द्यावेत)  
(गुण २०)
३. आकाशवाणीसाठी लेखन :  
(उपयोजित स्वरूपाची उत्तरे अपेक्षित/अंतर्गत पर्याय द्यावेत.)  
(गुण २०)
४. दूरदर्शनसाठी लेखन :  
(विवेचनात्मक किंवा उपयोजित स्वरूपाची उत्तरे अपेक्षित/  
अंतर्गत पर्याय द्यावेत.)  
(गुण २०)
५. जाहिरात लेखन :  
(विवेचनात्मक तसेच उपयोजित स्वरूपाची उत्तरे अपेक्षित/  
अंतर्गत पर्याय द्यावेत.)  
(गुण २०)



### (3) Gujarathi

गद्य

(१) हिमालयनो प्रवास - काका कालेलकर

Portion to be studied for the Term End Examination.

१. हिमालयनो प्रवास—upto 20th chapter 158 pages.

२. चित्रदर्शनो—upto first ten poems.

Portion to be studied for the Annual Examination.

पद्य

(२) चित्रदर्शनो - कवी न्हमनालाल

१. हिमालयनो प्रवास—upto the last chapter.

२. चित्रदर्शनो—upto the last poem.

Questions will be set from both the texts in annual examination. Term-end-Total four questions, each question of 15 marks. Annual exam.-Total 5 questions each question of 20 marks. Questions will be on both the text books.

**APPENDIX**

T.Y.B.A. / 34

**(4) Urdu**

**Appendix**

**UNIVERSITY OF PUNE**  
**T.Y.B.A. Urdu General Paper III**  
**Circular No. 188/2000**  
**(2000–2001, 2001–2002, 2002–2003)**

Text Prescribed :

1. (a) Yaadgar-e-Hali by Swaleha Abid Husain.  
(b) History of Urdu Drama and Novel.  
(c) Study of forms of Drama and Novel.
2. (a) Umrao Jan Ada by Mirza Hadi Md. Ruswa.  
(b) Anarkali by Imtiyaz Ali Taj.
3. Portion for the Term End Examination :  
(a) Critical study of the books and life of Maulana Hali.  
(b) History of Urdu Drama and Novel.  
(c) Study of forms of Urdu Drama and Novel.

Total marks 60 (2 hours duration)

No. of questions : 4 (with internal choice.)

**Pattern of question paper**

- |   |    |
|---|----|
| (i) Critical question on the author<br>or Text or form  | 15 |
| (ii) A critical question on the content<br>of the text. | 15 |
| (iii) A question on the History<br>of Urdu Drama.       | 15 |
| (iv) A question on History or form<br>of Novel.         | 15 |

Total marks 60

**T.Y.B.A. / 35**

4. Portion for the Annual Examination :  
Portion prescribed as above.  
Total marks : 80 (3 hours duration)  
No. of questions : 5 (with internal choice)

**Pattern of question paper**

- |       |   |    |
|-------|---|----|
| (i)   | A critical question on Yadgar-e-Hali or its author. | 16 |
| (ii)  | A critical question on Umrao Jan or its author      | 16 |
| (iii) | A critical question on Anarkali or its author       | 16 |
| (iv)  | Plot or characters of Anarkali and Umrao Jan Ada    | 16 |
| (v)   | History or form of Drama or Novel.                  | 16 |
|       | Total marks   | 80 |

**T.Y.B.A. Urdu Special Paper III  
(2000-2001, 2001-2002, 2002-2003)**

- (a) Principles of Literary Criticism.  
(b) History of Urdu Literary Criticism.
  - (a) Study of form of Literature : Ghazals.  
(b) Special poets : Wali, Meer, Momin, Asgar, Daag, Majrooh.
- (A) Portion for the Term End Examination :
- (a) Principles of literary criticism.  
(b) History of Urdu literary criticism.  
Total marks : 60 (2 hours duration)  
No. of question : 4 (with internal choice)

**Pattern of question paper**

- Four questions to be asked on the above topics.
- (a) Two questions on principles of literary criticism. 15

**T.Y.B.A. / 36**

(b) Two questions on History of Urdu Literary criticism.	15 15 15
Total marks	60

- (B) Portion for the Annual Question as paper :  
Portion as prescribed above.  
Total marks : 80 (3 hours duration)  
No. of Questions : 50 (with internal choice)

**Pattern of question paper**

1. A question on principles of Lit. criticism.	15
2. A question on history of Urdu Lit. Criticism.	15
3. A question on the historical development and form of Ghazal.	20
4-5. 2 questions on four special poets with internal choice.	30
Total marks	80

**T.Y.B.A. URDU SPECIAL PAPER IV**

**(2000-2001, 2001-2002, 2002-2003)**

Subject prescribed :

- (a) Essay on general or current topics.  
(b) Grammar (Parts of speech, Prosody, Figures  
of Speech, Punctuation).
- (a) Essay on Literary topics.  
(b) Linguistics.

**T.Y.B.A. / 37**

(A) Portion for the Term End Examination :

1. (a) Essay on general or current topics.
- (b) Grammar, Prosody, Figures of Speech.

Total marks : 60 (2 hours duration)

No. of questions : 3 (with internal choice)

**Pattern of question paper**

(i) Essay on general or current topic	25
(ii) (a) Grammar (b) Figures of speech	20
(iii) Prosody	15

Total marks  60

(B) Portion for the Annual Examination :

Portion as prescribed above.

Total marks : 80 (3 hours duration)

No. of questions : 50 (with internal choice)

**Pattern of question paper**

(i) An essay on general or current topic.	16
(ii) A question on Grammar and figures of speech.	18
(iii) & (iv) Two questions on linguistics	30
(v) An essay on Literary topic (from technique, poets, writers, literary covenents.)	16

Total marks  80

Ganeshkhind,  
Pune-411007.  
Ref. No. CBS/3717  
Date : 5-8-99

**N. M. Kadam**  
*for Registrar*

## (5) Sindhi

- (1) Pal Pal Jo Parlao (Poetry) by Hari Dilgir  
पल पल जो परलाअ (पद्य) ले. हरी दिलगीर  
(Available at Sindhi Times, Ulhasnagar-3)
- (2) Achhinde Laja Maran (Poetry)  
by Narain Shyam, Printed and Published by V. V. Hemthan  
at Sangam Printers, Purani Mandi, Ajmer.  
आछीदे लज मरा (पद्य) कवि नारायण श्याम
- (3) Priha Ja Pyaka (prose) by Rita Shahani  
(Available at Modern Book Stall, Pune-1)  
पिरह जा पियाक (गद्य) ले. रीटा शहाणी
- (4) Sinah Ja Sata nataka By Prof. Ram Panjawani  
(Available at Sindhi Times Publication, Laxmi Market,  
Ulhasnagar-421003)  
सिंध जा सत नाटक (गद्य-नाटक) नाटककार प्रा. राम पंजवाणी
- (5) Sur Kamod (Shah Jo Rasalso) by Prof. Kalyan Advani  
सूर कामोड (शाह जो रसालो) प्रा. कल्याण आडवाणी

T.Y.B.A. / 39

(६) हिंदी

Appendix to T.Y.B.A.  
Hindi-Reference Book

पुणे विद्यापीठ

परिपत्रक क्र. १७८/२०००

विषय : तृतीय वर्ष बी.ए. हिंदी विषयासाठी संदर्भ ग्रंथ नेमण्याबाबत.

विद्यापीठ अधिकार मंडळाच्या निर्णयानुसार सर्व संबंधितांना कळविण्यात येते की, तृतीय वर्ष बी.ए. या वर्गाच्या हिंदी ह्या विषयाच्या अभ्यासक्रमासाठी 'घटकवि विवेचनात्मक अध्ययन भाग १ व २' लेखक - डॉ. ओम्प्रकाश शर्मा (प्रकाशक - निराली प्रकाशन) हे पुस्तक संदर्भ ग्रंथ म्हणून नेमण्यात येत आहे.

गणेशखिंड, पुणे-४११००७

जा. क्र. सीबीए/३५९७

दि. २४-५-२०००

ना. म. कदम

कुलसचिवांकरिता.

T.Y.B.A. / 40

परिपत्रक क्र. ११२ / ९९ चे परिशिष्ट

पुणे विद्यापीठ

तुतीय वर्ष साहित्य

(हिंदी सामान्य - ३)

(निबंध, खंडकाव्य, व्याकरण तथा अनुवाद)

(शैक्षणिक वर्ष १९९९-२०००, २०००-२००१,  
२००१-२००२)

पाठ्यपुस्तके :

- |              |   |  |
|--------------|---|--|
| (१) खंडकाव्य | - | द्रौपदी - नरेंद्र शर्मा  |
| (२) प्रकाशक  | - | राजसमल प्रकाशन प्रा. लि.,<br>१-बी, नेताजी सुभाष मार्ग,<br>नई दिल्ली - ११०००२<br>संस्करण - १९९१ |
| (२) निबंध    | - | ललित निबंध - सं. आभा कुमरेस,   |
| प्रकाशक      | - | अन्नपूर्णा प्रकाशन, साकेतनगर, कानपूर<br>संस्करण - १९९९   |

केवल निम्नलिखित निबंध :

- (१) मुझे मेरे मित्रों से बचाव - पदमसिंह शर्मा
- (२) बुढापा - पाण्डेय बेचन शर्मा 'उग्र'
- (३) अशोक के फूल - हजारीप्रसाद द्विवेदी
- (४) लक्ष्मीराहक का दिव्यरूप - डॉ. रामविलास शर्मा
- (५) आदर्श मानव राम - दिनकर
- (६) गप-शप - डॉ. नामवर सिंह
- (७) एई रूप तें होहिं महाना - डॉ. गोपीनाथ तिवारी
- (८) खोई हुई वस्तु की खोज - लक्ष्मीकांत झा



**T.Y.B.A. / 41**

- (९) राग-विराग - हरिशंकर परसाई  
(१०) पुरानी परम्परा का विकास - रवीन्द्रनाथ त्यागी

**पाठ्यपुस्तकेतर पाठ्यक्रम :**

- (क) पारिभाषिक शब्दावली (पदनाम-सूची संलग्न)  
(ख) वाक्यांश (सूची संलग्न)  
(ग) संक्षिप्तयाँ (सूची संलग्न)  
(घ) पत्रलेखन - (१) परिपत्र  
(२) ज्ञापन  
(३) अनुस्मारक  
(४) प्रेस-विज्ञापित्ति  
(छ) अनुवाद  
(ज) वाक्य-शुद्धीकरण  
संदर्भ ग्रंथ : (१) सुबोध हिंदी व्याकरण एवं रचना - वीरेंद्र गुप्त  
(२) व्यावहारिक हिंदी - डॉ. महेंद्र मित्तल

**तृतीयवर्ष साहित्य**

- (क) पारिभाषिक शब्दावली (कुल ५०)  
(१) Advisor - सलाहकार  
(२) Advocate - अधिवक्ता  
(३) Under Secretary - अवर सचिव  
(४) Judge - न्यायाधीश  
(५) Justice - न्यायमूर्ति  
(६) Commissioner - आयुक्त  
(७) Trustee - न्यासी  
(८) Record Keeper - अभिलेखापाल  
(९) Meteorologist - मौसम विज्ञानी

**T.Y.B.A. / 42**

- (10) Excise Officer - उत्पाद शुल्क अधिकारी
- (11) Liaison Officer - संपर्क अधिकारी
- (12) Accountant General - महालेखाकार
- (13) General Manager - महाप्रबंधक
- (14) Deputy Minister - उपमंत्री
- (15) Typist - टंकक
- (16) Director - निदेशक, संचालक
- (17) Ambassador - राजदूत
- (18) Gazetted Officer - राजपत्रित अधिकारी
- (19) Tracer - अनुलेखक
- (20) Telegraphist - तार संकेतक
- (21) Technologist - शिल्प विज्ञानी
- (22) Chief of Air Staff - वायुसेनाध्यक्ष
- (23) Chief of Naval Staff - नौसेनाध्यक्ष
- (24) Head Clerk - प्रधान लिपिक
- (25) Office Superintendent - कार्यालय अधीक्षक
- (26) Divisional Personnel Officer - मंडलकार्मिक अधिकारी
- (27) Accountant General - महालेखाकार
- (28) Acting - कार्यकारी
- (29) Agent - अभिकर्ता
- (30) Receptionist - स्वागती
- (31) Auditor - लेखा परीक्षक
- (32) Census Officer - जनगणना अधिकारी
- (33) Treasurer - कोषाध्यक्ष
- (34) Chairman - अध्यक्ष
- (35) Managing Director - प्रबंध निदेशक
- (36) Executive Director - कार्यकारी निदेशक
- (37) Chief - प्रमुख

**T.Y.B.A. / 43**

- (38) Secretary - सचिव
- (39) Zonal Manager - क्षेत्रीय प्रबंधक
- (40) Principal - प्राचार्य
- (41) Chief Minister - मुख्यमंत्री
- (42) Superintendent - अधीक्षक
- (43) Inspector - निरीक्षक
- (44) Prime Minister - प्रधान मंत्री
- (45) Steno-Typist - आशुटंकक
- (46) Supervisor - पर्यवेक्षक
- (47) Labour Officer - श्रम अधिकारी
- (48) Personal Assistant - निजीसहाय्यक
- (49) Engineer - अभियंता
- (50) Body Guard - अंगरक्षक

**तृतीय वर्ष साहित्य**

(ख) पारिभाषिक वाक्यांश (कुल ५०)

- (1) Come in to Force - लागू होता
- (2) As a matter of fact - वस्तुतः वास्तव में
- (3) As a result of - के फलस्वरूप / परिणाम स्वरूप
- (4) As directed - निदेशानुसार
- (5) As a rule - नियमतः / आम तौर पर
- (6) By rule - नियमानुसार
- (7) By virtue of - के नाते / की हैसियत से
- (8) Cross examination - जिरह
- (9) Defence counsel - प्रतिवादी, बचाव पक्ष
- (10) During this period - इस अवधि में
- (11) Follow up action - अनुवर्ती कार्यवाही
- (12) I am directed to - मुझे निदेश हुआ है
- (13) I have the honour to say - सादर निवेदन है कि

**T.Y.B.A. / 44**

- (14) Under intimation to us - हमें सूचित करते हुए
- (15) May be informed accordingly - तदनुसार सूचित कर दिया जाय
- (16) On the advice of - की सलाह पर
- (17) So far as possible - यथासंभव
- (18) So far as practicable - यथासाध्य
- (19) Then and there - तत्काल वहीं
- (20) With regard to - के संबंध में / के बारे में
- (21) With regards - सादर
- (22) Above mentioned - उपर्युक्त / उपर लिखे हुए
- (23) According to - के अनुसार
- (24) As follows - निम्नप्रकार
- (25) As per - के अनुसार
- (26) As usual - हमेशा की तरह
- (27) Beg to state - निवेदन है
- (28) By all means - सभी प्रकार से / हर तरह से
- (29) Carry forward - आगे ले जाना
- (30) Under Certificate of Posting - डाक प्रमाणित
- (31) Credit goes to - इस का श्रेय - - - - को है।
- (32) Duty complied - विधिवत अनुपालन किया गया
- (33) For perusal - अवलोकनार्थ
- (34) Hard and fast rule - सुनिश्चित नियम
- (35) An anticipation of - की प्रतीक्षा में
- (36) In lieu of - के स्थान पर / के बदले में
- (37) Verified and found correct - सत्यापित किया और सही पाया
- (38) Enter upon an office - पद ग्रहण करना / पद संभालना
- (39) For your Perusal - जानकारी के लिए
- (40) Entitled to - के हकदार
- (41) Account is being maintained - लेखा (हिसाब) रखा जा रहा है

### T.Y.B.A. / 45

- (42) Maintenance of building - इमारत का अनुरक्षण
- (43) Matter is under consideration - मामला/विषय विचाराधीन है
- (44) Monetary limit - आर्थिक सीमा
- (45) Muster Roll - उपस्थिती नामावली
- (46) Orders are solicited - कृपया आदेश दें
- (47) Posting of figures - अंक दर्ज करना
- (48) Terms and conditions - शर्तें
- (49) This is to inform that - सूचना दी जाती है की
- (50) Completion certificate - समाणपत्र प्रमाणपत्र

### तृतीय वर्ष साहित्य

(ग) संक्षिप्तियाँ (कुल ५०)

- (1) MLA Member of Legislative Assembly  
विधायक
- (2) MP Member of Parliament  
सांसद
- (3) CID Crime Investigation Department  
अपराध अनुसंधान विभाग
- (4) Ph.D. Doctor of Philosophy  
विद्यावाचस्पती
- (5) D. Litt. Doctor of Literature  
साहित्य वाचस्पती
- (6) C.T.B.T. Comprehensive Testing Ban Treaty  
परमाणु परीक्षण निषेधसंधि
- (7) N.O.C. No Objection Certificate  
ना आपत्ती प्रमाणपत्र
- (8) BBC British Broadcasting Corporation  
ब्रिटिश प्रसारण निगम
- (9) NDA National Defence Academy  
राष्ट्रीय संरक्षण अकादमी

**T.Y.B.A. / 46**

- |      |        |  |
|------|--------|--|
| (10) | UCP    | Under Certificate of Posting<br>डाक-प्रमाणित   |
| (11) | UGC    | University Grants Commission<br>विश्वविद्यालय अनुदान आयोग  |
| (12) | UN/US  | United Nations/United States<br>संयुक्त राष्ट्र  |
| (13) | U.K.   | United Kingdom<br>ब्रिटेन के संयुक्त संस्थान   |
| (14) | UNO    | United Nations Organization<br>संयुक्त राष्ट्र संगठन   |
| (15) | USA    | United States of America<br>अमेरिका के संयुक्त राज्य   |
| (16) | NATO   | North Atlantic Treaty Organization<br>उत्तर अटलान्टिक सैन्य संगठन  |
| (17) | WHO    | World Health Organization<br>विश्व स्वास्थ्य संगठन   |
| (18) | VIP    | Very Important Person<br>अत्यंत महत्त्वपूर्ण व्यक्ती   |
| (19) | NASA   | National Aeronautics and<br>Space Administration<br>राष्ट्रीय वैमानिक एवं अंतरिक्ष प्रशासन                                   |
| (20) | UNESCO | United Nations Educational Scientific and<br>Cultural Organization<br>संयुक्त राष्ट्र शैक्षणिक, वैज्ञानिक एवं सांस्कृतिक संघ |
| (21) | IRD    | Integrated Rural Development Project<br>एकीकृत ग्रामीण विकास योजना   |
| (22) | NABARD | National Bank of Agriculture and Rural<br>Development<br>राष्ट्रीय कृषि तथा ग्रामीण विकास बैंक                               |
| (23) | IMF    | International Monetary Fund<br>आंतरराष्ट्रीय मुद्रा कोष  |

**T.Y.B.A. / 47**

- (24) ILO International Labour Organization  
आंतरराष्ट्रीय श्रम संगठन
- (25) IDBI Industrial Development Bank of India  
भारतीय औद्योगिक विकास बँक
- (26) NSA National Security Act  
राष्ट्रीय सुरक्षा अधिनियम
- (27) FERA Foreign Exchange Regulation Act  
विदेशी मुद्रा नियमन अधिनियम
- (28) C-DAC Centre for Development Advanced Computing  
प्रगत संगणकीय विकास केंद्र
- (29) UNICEF United Nations International Children's Emergency Fund  
संयुक्त राष्ट्र बाल आपात कोष
- (30) SAARC South Asian Association for Regional Co-operation  
दक्षिण एशिया क्षेत्रीय सहयोग संघ
- (31) WTO World Trade Organization  
विश्व वाणिज्य संगठन
- (32) GATT General Agreement on Tariffs and Trade  
प्रशुल्क तथा वाणिज्य संबंधी सर्वसाधारण अनुबंध
- (33) NAM Non Alligned Movement  
अलिप्त राष्ट्र संगठन
- (34) IBRD International Bank for Reconstructing and Development  
आंतरराष्ट्रीय पुनर्निर्माण एवं विकास बँक
- (35) NCERT National Council for Education Research and Training  
राष्ट्रीय शैक्षणिक संशोधन तथा प्रशिक्षण परिषद
- (36) MIDC Maharashtra Industrial Development Corporation  
महाराष्ट्र औद्योगिक विकास निगम

**T.Y.B.A. / 48**

- (37) CBI Central Bureau of Investigation  
केंद्रीय अन्वेषण विभाग
- (38) PIN Postal Index Number  
डाक सूची क्रमांक
- (39) IPC Indian Pinal Code  
भारतीय दंड संहिता
- (40) IB Intelligence Bureau  
गुप्तचर विभाग
- (41) SEBI Security Exchange Board of Investment  
मुद्रा निवेश सुरक्षा मंडळ
- (42) IAS Indian Administration Service  
भारतीय प्रशासन सेवा
- (43) ICS Indian Civil Service  
भारतीय नागरी सेवा
- (44) IPS Indian Police Service  
भारतीय पुलिस सेवा
- (45) IFS Indian Forest Service  
भारतीय वन सेवा
- (46) MPSC Maharashtra Public Service Commission  
महाराष्ट्र लोकसेवा आयोग
- (47) UPSC Union Public Service Commission  
केंद्रीय लोकसेवा आयोग
- (48) SET State Eligibility Test  
राज्यस्तरीय योग्यता परीक्षा
- (49) NET National Eligibility Test  
राष्ट्रस्तरीय योग्यता परीक्षा
- (50) PSI Police Sub Inspector  
पुलिस उप निरीक्षक



**T.Y.B.A. / 49**

**अंक विभाजन तथा प्रश्नपत्र का स्वरूप**

- (१) अंकविभाजन :
- |                                |          |
|--------------------------------|----------|
| (क) निबंध                      | - ३२ अंक |
| (ख) खंडकाव्य                   | - ३२ अंक |
| (ग) पाठ्यपुस्तकेतर पाठ्यक्रम   |          |
| (१) पारिभाषिक शब्दावली (पदनाम) | - ०५ अंक |
| (२) वाक्यांश                   | - ०५ अंक |
| (३) संक्षिप्तियाँ              | - ०६ अंक |
| (४) पत्रलेखन                   | - ०६ अंक |
| (५) अनुवाद                     | - ०६ अंक |
| (६) वाक्य शुद्धीकरण            | - ०८ अंक |

---

कुल - १०० अंक

- (२) प्रश्नपत्र का स्वरूप :
- (१) निबंध पर दीर्घोत्तरी प्रश्न अथवा ४ में से २ प्रश्नों के उत्तर  
- १६ अंक
- (२) खंडकाव्य पर दीर्घोत्तरी प्रश्न अथवा ४ में से २ प्रश्नों के उत्तर  
- १६ अंक
- (३) (अ) निबंध पर २ में से १ अवतरण की ससंदर्भ व्याख्या  
- ०८ अंक
- (आ) खंडकाव्य पर २ में से १ अवतरण की ससंदर्भ व्याख्या  
- ०८ अंक
- (४) टिप्पणियाँ :
- (१) निबंध पर २ में से १  
- ०८ अंक
- (२) खंडकाव्य पर २ में से १  
- ०८ अंक

**T.Y.B.A. / 50**

- (५) (अ) अंग्रेजी पारिभाषिक शब्दों के हिंदी पर्याय - ०५ अंक  
(पदनाम) (६ में से ५)
- (आ) अंग्रेजी वाक्यांशों के हिंदी पर्याय - ०५ अंक  
(७ में से ५)
- (इ) अंग्रेजी संक्षिप्तियों के हिंदी पूर्ण पर्याय - ०६ अंक  
(८ में से ६)
- (६) (अ) पत्रलेखन २ में से १ - ०६ अंक
- (आ) अंग्रेजी या मराठी अनुच्छेद का हिंदी अनुवाद - ०६ अंक
- (इ) वाक्य-शुद्धीकरण १० में से ८ - ०८ अंक

**वैकल्पिक पाठ्यक्रम प्रयोजनमूलक हिंदी - ३ के पाठ्यक्रम अंकविभाजन  
तथा प्रश्नपत्र के स्वरूप में कोई परिवर्तन नहीं है।**

तृतीय वर्ष बी. ए. – सामान्य हिंदी  
पाठ्यक्रम 'लेखन' विभागांतर्गत निर्धारित  
पारिभाषिक शब्दावली  
पदनाम (Designations)

Adviser-सलाहकार	Calculator-गणक
Advocate-अधिवक्ता	Computer-संगणक
Chief Minister-मुख्यमंत्री	Custodian-अधीक्षक
Clerk-लिपिक	Controller-नियंत्रक
Commissioner-आयुक्त	Director-निदेशक, संचालक
Inspector-निरीक्षक	Approval-अनुमोदन
Judge-न्यायाधीश	Appendix-परिशिष्ट
Justice-न्यायमूर्ति	Appointment-नियुक्ती
General Manager-महाप्रबंधक	Agreement-करार, अनुबंध
Legal Adviser-विधि सलाहकार	Admissible-ग्राह्य, स्वीकार्य
Nurse-परिचारिका	Countersigned-प्रतिहस्ताक्षरित
Operator-प्रचालक	Document-प्रलेख, दस्तावेज
Prime Minister-प्रधान मंत्री	Drafting-आलेखन
Secretary-सचिव	Employment-रोजगार, सेवायोजन
Record Keeper-अभिलेखापाल	Foot-Note-तल टीप
Steno-Typist-लघुटंकलेखक	Jurisdiction-क्षेत्राधिकार
Store Keeper-भंडारी	Increment-वेतनवृद्धी
Superintendent-अधीक्षक	Monopoly-एकाधिकार
Supervisor-पर्यवेक्षक	Promotion-पदोन्नती, तरक्की
Surveyor-सर्वेक्षक	Resignation-त्यागपत्र
Ambassador-राजदूत	Sanction-स्वीकृती, मंजुरी
Body Guard-अंगरक्षक	Statement-बयान, वितरण
Engineer-अभियंता	

**T.Y.B.A. / 52**

Demonstrator-निदर्शक	Regional/Zonal-क्षेत्रीय
Executive Engineer-कार्यकारी अभियंता	Regular-नियमित Retirement-निवृत्ती
Gazetted Officer-राजपत्रित अधिकारी	Correspondence-पत्राचार, पत्रव्यवहार
Labour Officer-श्रमअधिकारी	Grade-पदक्रम
Personal Assistant-निजीसहाय्यक	Demotion-पदावनति
Planning Officer-योजना अधिकारी	Eligible-पात्र
Traffic Manager-यातायात प्रबंधक	Revised-पुनरीक्षित
Treasurer-कोषाध्यक्ष	Miscellaneous-प्रकीर्ण Transcription-प्रतिलेखन
Management-प्रबंध	Juniority-कनिष्ठता
Classification-वर्गीकरण	Proposal-प्रस्ताव
Column-स्तंभ	Authorised-प्राधिकृत
Contingencies-आकस्मिक व्यय, पुष्कळ व्यय	Submission- प्रस्तुतीकरण, निवेदन Minutes (of a Meeting)- कार्यवृत्त
Counter foil-प्रतिवर्ण, मुसन्ना	Surcharge-अधिभार
Declaration-घोषणा	Figures-आकडे
Draft-प्रारूप, मसौदा	Order-आदेश
Employee-कर्मचारी, सेवक	Objection-आपत्ति
Estimate-अनुमान	Action-कारवाई
Grant-अनुदान	Capacity-क्षमता
Implementation-कार्यान्वय	Compensation-क्षतिपूर्ती, मुआवजा
Initials-आद्याक्षर, प्राक्षर	Current-चालू
Note - टिप्पणी	Surety-जामीन
Report-प्रतिवेदन	Breakage/Wear Tear-टूटफूट
Responsibility-उत्तरदायित्व	Rate-दर
Scheme-योजना	
Activity-क्रियाशीलता	

**T.Y.B.A. / 53**

Nominal-नाममात्र	Claimant-दावेदार
Cancellation-निरसन	Specified-निर्दिष्ट
Conclusion-निष्कर्ष	Tourism-पर्यटन
Post-पद	Receipt-पावती, रसीद
Dismissal-पदच्युति	Stamped-मुद्रकांकित
Advice - परामर्श	Account-लेखा
Eligibility-पात्रता	Disbursement-वितरण
Enquiry-पूछताछ	Demurrage-विलंब शुल्क
Representation-प्रतिनिधित्व,	Duty-शुल्क
Certified-प्रमाणित	
Damag-हर्षाना	Security Bond-जमानतनामा
Consignee-माल पानेवाला, प्रेषिती	Total-जोड, योग
Consigner-प्रेषक, माल भेजनेवाला	Cartage-ढुलाई
Divisional Superintendent-	(To) Register-दर्ज करना
मंडल अधीक्षक	Renewal-नवीकरण
Loading-लदान	Registered-पंजीकृत
Seniority-वरिष्ठता	Fortnightly-पाक्षिक
Priority-प्राथमिकता	Demand-माँग
Authentic-प्रामाणित	Cash-रोकड
Suspension-निलंबन	Recovery-वसुली
Procedure-क्रियाविधि	Delay-विलंब
Temporary-अस्थायी	Complaint-शिकायत
Partial-आंशिक	Fair Copy-स्वच्छ प्रती, साफ
Basis/Ground-आधार	Chief Commercial
Average-औसत	Superintendent-मुख्य
Fare-किराया	वाणिज्य अधीक्षक
Damage-क्षति	Lost Property Office-लापता
Mortgage-गिरवी, बंधक	सामान कार्यालय

**T.Y.B.A. / 54**

**तृतीय वर्ष बी. ए. सामान्य हिंदी ५० वाक्यांश प्रेजेस**

1. Account is being maintained-लेखा (हिसाब) रखा जा रहा है।
2. Maintenance of building-इमारत का अनुरक्षण।
3. Man hours/days-काम घंटे । दिन ।
4. Matter is under consideration-मामला विषय विचाराधीन है।
5. May be considered-विचार किया जाए।
6. May be informed accordingly-तदनुसार सूचित कर दिया जाए।
7. May be treated as urgent-इसे अविलंबनीय समझा जाए।
8. Misappropriation of money-धन का गबन। दुर्विनियोग
9. Monetary limit-आर्थिक सीमा।
10. Muster roll-उपस्थिति नामावली। हाजिरी रजिस्टर।
11. Notified for general information-सर्वसाधारण की जानकारी के लिए अधिसूचित।
12. Objections have been dealt with-आपत्तियों पर विचार कर लिया गया है।
13. Orders are solicited-कृपया आदेश दे।
14. Bill has been paid-बिल का भुगतान हो गया।
15. Passed for payment-अदायगी। भुगतान के लिए स्वीकृत। पास किया गया।
16. Please appear in person before-कृपया ... के समक्ष स्वयं उपस्थित रहे।
17. Posting of figures-एक दर्जा करना । चढाना।
18. Rules of business-कार्यसंचालन नियमावली।
19. Security deposit-प्रतिभूति जमा। जमानत जमा।
20. Shall be liable to pay-देना पडेगा।
21. I am directed to state-मुझे वह कहने का निर्देश हुआ है।
22. Statement of accounts-लेखाविवरण
23. Terms and conditions-शर्तें
24. This is to inform that-सूचना दी जाती है की।

**T.Y.B.A. / 55**

25. Total brought forward-अग्रैन्वीत। आगे लाया गया जोड़।
26. Under certificates of posting-डाक प्रमाणित
27. Your request cannot be accepted to-आपकी प्रार्थना स्वीकार नहीं की जा सकती।
28. Seen and returned-देखकर वापस किया जाता है।
29. For information only-केवल सूचना के लिए।
30. Submitted for orders-आदेश के लिए प्रस्तुत है।
31. Kindly acknowledge-कृपया पावती भेजिए।
32. Await reply-उत्तर की प्रतीक्षा की जाए।
33. By return of post-लौटती डाक से।
34. Come into force-लागू होना।
35. Accepted in Principle-सिद्धान्त रूप से स्वीकृत।
36. After adequate consideration-समुचित विचार के बाद।
37. Adjustment of account-लेखा समायोजन।
38. Administrative head-प्रशासी प्रधान।
39. Affix a seal-मोहर लगाना।
40. Agreement form-अनुबंध पत्र। करारनामा।
41. Assets and liabilities-परिसंपत्ति। आस्तियाँ तथा देयता।
42. Balance sheet-तुलनपत्र
43. Indemnity bond-क्षतिपूर्ति-बंधपत्र। बाँड।
44. Completion certificate-समापन प्रमाणपत्र।
45. Comply with-चालन करना, अनुचालन करना।
46. Deputation allowance-प्रतिनियुक्ति भत्ता।
47. Enter upon an office-पद ग्रहण करना। पद संभालना।
48. Entitled to-के लिए हकदार।
49. In accordance with-के अनुसार।
50. In lieu of - के स्थान में। पर के बदले में।  
उपर के पारिभाषिक शब्दों तक वाक्यांशों का वाक्य में प्रयोग करना है। तीन शब्दों में से दो का और तीन वाक्यांशों में से दो का प्रयोग अपेक्षित है।

**T.Y.B.A. / 56**

**अथवा  
प्रयोजनमूलक हिन्दी  
तृतीयवर्ष कला**

**व्याकरण :**

प्रथम वर्ष और द्वितीयवर्ष कला में पठित व्याकरण के आधार पर वर्तनी और वाक्य रचना की अशुद्धियों को शुद्ध करना।

**पारिभाषिक शब्दावली :**

कार्यालयीन कार्य पद्धती से संबंधित पारिभाषिक शब्द तथा वाक्यांश।  
७५ शब्द और २५ वाक्यांश - अर्थ और उनका वाक्यों में प्रयोग।

**कार्यालयीन कार्य पद्धती का परिचय :**

पत्रादि की प्राप्ति - रजिस्ट्री - वितरण - अनुभाग - डायरी में प्रविष्टी - डाक का अवलोकन - आवतियों की प्राथमिक जाँच - संगत सामग्री का इकट्ठा करना टिप्पणी लिखना - अनुमोदित टिप्पणी का सहायक के पास आना - मसौदा का अनुमोदन - प्रेषण ।

**कार्यालयीन पत्रव्यवहार :**

कार्यालयीन पत्रों के प्रकार - सरकारी पत्र के प्रकार —

सरकारी पत्र, अर्धसरकारी पत्र, ज्ञापन, कार्यालय ज्ञापन, राजपत्र, अधिसूचना, संकल्प, तार, तुरतपत्र, द्रुतपत्र, मिव्यय-पत्र, प्रेस विज्ञापित, प्रेसनोट, परिपत्र, आदेश, कार्यालय आदेश, पृष्ठांकन, अंतरिम उत्तर, सूचना (सूचना पट्ट के लिए)।

**कार्यालयीन अनुवाद :**

कार्यालयीन पत्रव्यवहार - नियमावली प्रपत्र वृत्त आदि (कार्यालयीन अनुवाद के नमूने संलग्न हैं)।



## T.Y.B.A. / 57

### कर :

आयकर, सीमाशुल्क, उत्पादन शुल्क, व्यवसायकर, राज्यपरिवहन कर, सडक कर, नगरपालिका मरग निगम कर आदि करों कि सामान्य जानकारी और प्रपत्र भरने का प्रत्यक्ष अनुभव।

### आकाशवाणी और दूरदर्शन के लिए लेखन :

कहानी – एकांकी - वार्ता- आँखों देखा हाल, झलकियाँ, भेंट वार्ता, संस्मरण, दिन-विशेष, प्रचलित विषयों पर चर्चा, भाषा पाठ आदि।

### पत्रकारिता के विविध आयामों का सामान्य परिचय :

पत्र नीति की सामान्य जानकारी, जनसंपर्क, सरकारी-सूचना व्यवस्था, संपादकीय, स्तंभलेखन, निविदा, सूचना, विज्ञापन आदि समाचारों के प्रकार-समाचार-संपादन और प्रस्तुति-शीर्षक।

### मुद्रित-शोधन :

मुद्रित-शोधन के विविध चिन्ह और उनका सामान्य परिचय ।

### विज्ञापन लेखन-स्वरूप और सामान्य परिचय :

विज्ञापन का अर्थ-आवश्यकता तथा उपयोग ।

### विज्ञापन के विविध प्रकार :

दैनिक उपयोग की वस्तुएँ - दियासलाई, बिन्दी, शाम्पू, साबुन आदि, भेंट में दी जानेवाली वस्तुएँ। खेल, मनोरंजन, सेल, प्रदर्शनी आदि।

### विज्ञापनों के परिणाम :

पोस्टर-पोस्टरों के विविध प्रकारों और प्रयोजनों की सामान्य जानकारी तथा विज्ञापनादि के घोष तैयार करना ।

### पारिभाषिक शब्दावली :

पारिभाषिक शब्दावली और वाक्यांश और उनका वाक्यों में प्रयोग ।

**T.Y.B.A. / 58**

**हिन्दी पारिभाषिक शब्दावली**

अंग्रजी	हिन्दी
(1) Contributory	— अंशदायी
(2) Inadmissible imprest	— अग्रदाय
(3) With priority	— अग्रतासहित
(4) Inadmissible	— अग्राह्य
(5) Forwarding letter	— अग्रोषण पत्र
(6) Honorary	— अवैतनिक
(7) Up to date	— अद्यतन
(8) Counterfoil	— अधपत्रा
(9) Requisition	— अधिग्रहण
(10) Surcharge	— अधिभार
(11) Subordinate office	— अधीनस्थ कार्यालय
(12) Disqualification	— अनर्हता
(13) No objection	— अनापत्ति
(14) Obligatory	— अनिवार्य
(15) Licence	— अनुज्ञप्ति
(16) Ratio	— अनुपात
(17) Instruction	— अनुदेश
(18) Non-cognizable	— अनुसंधेय
(19) Section	— अनुभाग
(20) Enclosure	— अनुलग्नक
(21) Duplicate	— अनुलिपि
(22) Interim	— अन्तरिम
(23) Adoption	— अनुकूलन
(24) Non-Permanent Temp	— अस्थायी
(25) Follow up action	— अनुवर्ती कार्रवाई
(26) Inability	— अयोग्यता

**T.Y.B.A. / 59**

(27) Ultimatum	— अन्तिम चेतावनी
(28) Additional Secretary	— अपर सचिव
(29) Non-bailable	— अप्रतिभाव्य
(30) Aggrieved	— असंतुष्ट
(31) Candidate	— अन्वर्थी
(32) Remarks	— अभ्युक्तियाँ
(33) Non-gazetted	— अराजपत्रित
(34) Qualification	— अर्हता
(35) Recurring	— आवर्ती
(36) Seasonal ticket	— आवधिक टिकट
(37) Forthcoming	— आगामी
(38) Syllabic	— अक्षीरक
(39) History sheet	— इतिवृत्त
(40) By-law	— उपनियम-उपविधि
(41) Above-cited	— ऊपर उद्धृत
(42) Quotation	— उद्धारण
(43) Quoter	— अदर्ता
(44) Lumpsum	— एकमुश्त
(45) Hereby	— एतद् द्वारा
(46) Time-barred	— कालबाधित
(47) Personal	— कार्मिक
(48) Proceedings	— कार्यवाही
(49) Implementation	— कार्यान्वयन
(50) Quorum	— कार्यवाहन संस्था
(51) Efficiency	— कार्यकुशलता
(52) Current Account	— खाता चालू
(53) Deposit Account	— खाता जमा
(54) Debit Account	— खाता नाम

**T.Y.B.A. / 60**

(55) Capital Account	— खाता सूची
(56) Intelligence bureau	— खुफिया ब्युरो
(57) Intensive	— गहन
(58) Grave emergency	— गंभीर आपात
(59) Respectable	— गण्यमान
(60) Mortgage	— गिरवी
(61) Product	— गुणनफल
(62) Confidential	— गोपनीय
(63) Mobile squad	— चलदस्ता
(64) Consolidator	— चकबंदी कर्ता
(65) Character Certificate	— चरित्र प्रमाणपत्र
(66) Warning	— चेतावनी
(67) Endorsed cheque	— चेक-बेचान
(68) Crossed cheque	— चेक शारूजोग
(69) Octroi duty	— चुंगी
(70) Retrenchment	— छँटनी
(71) Wastage	— छीजन-बरबादी
(72) Leave salary	— छट्टी वेतन
(73) Leave vacancy	— छट्टी-रिक्ति
(74) Leave account	— छट्टी-लेखा
(75) Casual leave	— छट्टी
(76) Study leave	— छट्टी आध्ययनार्थ
(77) Whim	— तरंग
(78) Ad-hoc appointment	— तदर्थ नियुक्ति
(79) Ad-hoc sanction	— तदर्थ मंजूरी
(80) Ad-hoc committee	— तदर्थ समिती
(81) Factual	— तथ्यात्मक
(82) Active consideration	— तत्परता से विचार

**T.Y.B.A. / 61**

(83)	Elemental	— तात्त्विक
(84)	Punitive tax	— वाजीरीकरण
(85)	Immediate slip	— तुरंत पर्ची
(86)	Balance Sheet	— तुलन-पत्र
(87)	Wholesale rate	— थोक दर
(88)	Voted	— दत्तमत
(89)	Efficiency bar	— दक्षता-रोध
(90)	By hand	— दस्ती
(91)	Punished	— दण्डात्मक
(92)	Teleprinter	— दूरमुद्रक
(93)	Telecommunication	— दूरसंचार
(94)	Tour allowance	— दौरा भत्ता
(95)	Money-bill	— धन-विधेयक
(96)	Positive	— धनात्मक
(97)	Clause	— धारा, खण्ड
(98)	Implication	— ध्वनितार्थ
(99)	Copyist	— नकलनवीस
(100)	Cash payment	— नकद भुगतान, नकद अदायगी
(101)	Disposion	— नामांकन
(102)	Disposal	— निपटान
(103)	Net amount	— निवल राशि
(104)	Employer	— नियोजता
(105)	Suspension	— निलंबन
(106)	Expulsion	— निष्कासन
(107)	Routine check	— नेमी जाँच
(108)	Official capacity	— पदीय हैसीयत
(109)	Ex-officio	— पदेन
(110)	Promotion	— पदोन्नति

**T.Y.B.A. / 62**

(111) Proviso	— परन्तुक
(112) Top-secret	— परमगोपनीय
(113) Absolutely necessary	— परम आवश्यक
(114) Top priority	— परम अग्रता
(115) His excellency	— परम-श्रेष्ठ
(116) Circulated	— परिचलित
(117) Circuit	— परिपथ
(118) Variable	— परिवर्तनीय
(119) Convention	— परिपाटी
(120) Emoluments	— परिलब्धियाँ
(121) Probation	— परिवीक्षा
(122) Avoidable	— परिहार्य
(123) Initiative	— पहल शक्ति
(124) Aspect	— पहलू
(125) Eligibility	— पात्रता
(126) Out of turn	— पारी बाहर
(127) Transmission	— पारेषण
(128) Passed	— पारित
(129) Venerable	— पूजनीय
(130) Whole time	— पूर्णकालिक
(131) Prior permission	— पूर्वानुमति
(132) Previous reference	— पूर्व संदर्भ
(133) Progressive	— प्रगामी
(134) Deputation to another post	— प्रतिनियुक्ति
(135) Vigilance	— प्रतिजागर, चौकसी,
(136) Adverse Report	— प्रतिकूल रिपोर्ट
(137) Compensatory leave	— प्रतिपूरक छुट्टी
(138) Reimbursement	— प्रतिपूर्ति

**T.Y.B.A. / 63**

(139)	Transcription	—	प्रतिलेखन
(140)	Percentage	—	प्रतिशतक
(141)	Report	—	प्रतिवेदन
(142)	Waiting list	—	प्रतीक्षा सूची
(143)	Repayable	—	प्रतिदेय
(144)	Credentials	—	प्रत्यय-पत्र
(145)	Anticipation	—	प्रत्याशा
(146)	Error	—	प्रभ्रम
(147)	Proficiency	—	प्रवीणता
(148)	Authority	—	प्राधिकरण
(149)	Division	—	प्रभाग
(150)	Charges as payment for services rendered	—	प्रभार
(151)	Impressed	—	प्रमाणित
(152)	Effective	—	प्रभावी
(153)	Senior	—	प्रवर
(154)	Select committee	—	प्रवर समीति
(155)	Consignee	—	प्रेषिति
(156)	Written statement	—	प्रतियाद पत्र
(157)	Waiting list	—	प्रतीक्षक सूची
(158)	Death Certificate	—	फौतनामा
(159)	Prodigal	—	फिजूल खर्च, अपव्यव
(160)	Dismissal	—	बदास्तगी
(161)	Provided that	—	बशर्ते कि
(162)	Armoured	—	बख्तरबंद
(163)	Barred	—	बाधित
(164)	Out of turn	—	बिनतारी
(165)	Dotted	—	बिंदुकित

**T.Y.B.A. / 64**

(166)	No demand certificate	— बे आवती पत्र
(167)	Packing charge	— बैठन-प्रभार
(168)	Cognitive	— बोधात्मक
(169)	Recruitment	— भर्ती
(170)	Voidable	— भंजनीय
(171)	Xenoegiossia	— भाषेतरज्ञान, वाङ्मयभाषाज्ञान
(172)	Porter	— भाषिक
(173)	Competence	— भाषीय क्षमता
(174)	Anti-currupcion	— भ्रष्टाचार निरोध
(175)	Cancel	— मंसुख, निरस्त
(176)	Advisory	— मंत्रणा-परामर्शदात्री
(177)	Accountant General	— महालेखाकार
(178)	General Manager	— महाप्रबंधक
(179)	Secretary General	— महासचिव
(180)	Designee	— मनोनीत
(181)	Indent	— मांग पत्र
(182)	Requisition slip	— मांग पर्ची
(183)	Validity	— मान्यता, वैधता
(184)	File	— मिसिल
(185)	Duration	— मियाद, अवधि
(186)	Suspension	— मुअत्तल
(187)	Compensation	— मुआवजा
(188)	Valuation	— मूल्यांकन
(189)	Rationalism	— युक्तिवाद
(190)	Diplomacy	— राजनयिक
(191)	Revenue	— राजस्व
(192)	Daily register	— रोजनामचा
(193)	Will	— रिक्थपत्र, दित्सापत्र



**T.Y.B.A. / 65**

(194)	Devotion	—	लगन
(195)	Pending	—	लंबित, प्रलंबित
(196)	Audit	—	लेखा-परीक्षा
(197)	Head of account	—	लेखा-शीर्ष
(198)	Enhanced	—	वर्धित
(199)	Option	—	विकल्प
(200)	Bonafide	—	वास्तविक
(201)	Contradictory	—	विरोधी
(202)	Cross-Purpose	—	विरोधी उद्देश
(203)	Digression	—	विषयान्तरण
(204)	Decentralization	—	विकेन्द्रीकरण
(205)	Demurrage	—	विलंब शुल्क
(206)	Prescribed	—	विहित
(207)	Stoppage of Increment	—	वेतन-वृद्धि-रोक
(208)	Lawful	—	विधि-संवत-विधि पूर्ण
(209)	Legislation	—	वैदीकरण
(210)	Legal Position	—	वैधीस्थिती
(211)	Verbiage	—	शब्द बाहुल्य-शब्दावडंबर
(212)	Verbatim	—	शब्दशः पदानुपद
(213)	Prompt action	—	शीघ्र-कार्यवाही
(214)	Testimonial	—	शंखा-पत्र
(215)	Governing body	—	शास्त्र-निकाय
(216)	Identification	—	शिनाख्त
(217)	Quarantine leave	—	संगरोध छुट्टी
(218)	Equivalent	—	समकक्ष
(219)	Meritorious service	—	सराहनीय सेवा, श्लाघ्य सेवा
(220)	Verification	—	सत्यापन
(221)	Equivalent	—	समकक्ष

**T.Y.B.A. / 66**

(222) Co-opted	— सह-योजित
(223) Ready reference	— सुलभ-संदर्भ
(224) Adjournment	— स्थगन
(225) Local body	— स्थानीय निकाय
(226) Confession	— संस्वीकृति
(227) Subjunctive	— संभावनामूलक
(228) Concurrence	— सहमति
(229) Purposely	— सप्रयोजन
(230) Officer concerned	— संबंधित अधिकारी
(231) Cryptology	— सांकेतिक भाषा
(232) Well intentioned	— सुप्रयोजित
(233) Interpretation in service	— सेवा में व्ययधान
(234) Notice-board	— सूचना पट्ट
(235) Intervention	— हस्तक्षेप
(236) Compensation	— पहरजाना, क्षतिपूर्ति
(237) Signed	— हस्ताक्षरित
(238) Conveyancer	— हस्तांतरक
(239) Reparations, idemnity	— क्षतिपूर्ति
(240) Regional Manager	— क्षेत्रीय प्रबंधक
(241) Memorandum	— ज्ञापन

**संदर्भ ग्रंथ सूची :**

१. अखिल भारतीय प्रशासकीय कोश- डॉ. भोलानाथ तिवारी, कैलाशचंद्र भाटिया, प्रभात प्रकाशन, दिल्ली, १९८२.
२. राजभाषा प्रशासनिक शब्दकोश-डॉ. एस. त्यागी, साहित्य प्रकाशन, दिल्ली, संस्करण, ८६.

**T.Y.B.A. / 67**

३. मानक, हिंदी-अंग्रेजी शब्दकोश-राममूर्ति सिंह, प्रभात प्रकाशन, दिल्ली-६, संस्करण, १९७४
४. सामान्य हिंदी-अंग्रेजी शब्दकोश-राममूर्ति सिंह, हिंदी ग्रंथ रत्नाकर प्राइव्हेट लिमिटेड, संस्करण, १९६४.
५. प्रशासनिक हिंदी निपुणता-हरिबाबू कंसल, प्रभात प्रकाशन, दिल्ली, संस्करण, १९८६.
६. हिंदी आलेखन एवं टिप्पण-डॉ. ओम प्रकाश, सन्मार्ग प्रकाशन, दिल्ली, संस्करण, १९७६.
७. प्रामाणिक आलेखन आणि टिप्पण-प्रो. विराज, राजपाल एण्ड सन्स, संस्करण, १९७७.
८. साहित्यिक पारिभाषिक शब्दावली-संपादक डॉ. प्रेमनारायण टण्डन, हिंदी साहित्य भाण्डार, लखनऊ, संस्करण, १९६९.
९. सामान्य भाषाविज्ञान-वैशना नारंग, प्रकाशन संस्थान, दिल्ली - ११००३२, संस्करण, १९८१.
१०. हिंदी रूप रचना-संपादक आचार्य जयेंद्र त्रिवेदी, लोकभारती प्रकाशन, भाग-२, इलाहाबाद-१, संस्करण, १९८८.
११. देवनागरी-विकास परिवर्तन और मानकीकरण-केंद्रीय हिंदी निदेशालय,
१२. हिंदी व्याकरण-शास्त्री, आपटे, द. भारत प्रचार समिति.
१३. व्यावहारिक अनुवाद की समस्याएँ-डॉ. भोलानाथ तिवारी.
१४. व्यावहारिक हिंदी - डॉ. रवींद्रनाथ श्रीवास्तव, डॉ. भोलानाथ तिवारी, प्र. डा. एफ., कमलानगर, दिल्ली-११० ००७.
१५. बॉकेिंग उन्मुख हिंदी - डॉ. मीरा पाटोदिया, ४४, इंदिरा कालोनी, बनी पार्क, जयपूर-३०२००६.
१६. कार्यालय सहायिका — डॉ. पी. जयरामन, हिंदी साहित्य भांडार, ५५, चौपाटिया रोड, चौक, लखनौ-३.
१७. आलेखन, टिप्पणी, अनुवाद तथा संक्षेपन - प्रो. नायक और ठक्कर.
१८. अनुवाद कला - डॉ. भोलानाथ तिवारी.
१९. प्रशासकीय हिंदी - गोपीनाथ श्रीवास्तव.

**T.Y.B.A. / 68**

२०. पत्रकारिता में अनुवाद की समस्याएँ – डॉ. भोलानाथ तिवारी.  
२१. नागरी लिपि का उद्भव और विकास – डॉ. ओम् प्रकाश भाटिया  
“आराज.”

**प्रशासकीय पत्रव्यवहार के लिए अंग्रेजी वाक्यांश के हिंदी रूप**

- |  |   |                                     |
|--|---|-------------------------------------|
| 1. Austerity provisioning Scheme           | — | मितव्ययी योजना                      |
| 2. Administrative approval may be obtained | — | प्रशासकीय अनुमोदन प्राप्त किया जाए। |
| 3. Await further comments                  | — | टीका प्रतिवेदन की प्रतीक्षा कीजिए।  |
| 4. By way of amendment                     | — | संशोधन के रूप में                   |
| 5. Conclusive proof                        | — | निश्चित प्रमाण                      |
| 6. Communal award                          | — | साम्प्रदायिक निर्णय                 |
| 7. Contempt of Court                       | — | न्यायालय अवमान                      |
| 8. Details of outlay                       | — | परिव्यय का ब्योरा                   |
| 9. Disciplinary action                     | — | अनुशासनिक कारवाई                    |
| 10. Extract should be taken                | — | उद्धरण लिया जाना चाहिए।             |
| 11. For perusal and return                 | — | अवलोकन करके लौटाने के लिए           |
| 12. Grage disorder                         | — | गंभीर अव्यवस्था                     |
| 13. In persuance of the policy             | — | नीति के अनुसार                      |
| 14. In public interest                     | — | जनहित में                           |
| 15. Matter of fact statement               | — | यथार्थ बयान, यथार्थ विवरण           |
| 16. Motion of adjournment                  | — | स्थगन प्रस्ताव                      |
| 17. In a nutshell                          | — | संक्षेप में                         |
| 18. Opt informal sanction                  | — | औपचारिक स्वीकृति प्राप्त कीजिए।     |

**T.Y.B.A. / 69**

19. Retrospective effect — पश्चात्दर्शी
20. Please give top priority to this case — कृपया इस मामले को सर्वाधिक प्राथमिकता दीजिए।
21. Reinstated in service — नौकरी बहाल की गई
22. Subject to the approval of — अनुमोदन उपाधित
23. The question is issue — विवाद्य विषय
24. Under investigation — जाँच में
25. Voting by proxy — प्रतिनिधि द्वारा मतदान
26. Whole-hearted support — पूर्ण समर्थन
27. With the concurrence — की सहमति से

प्रशासकीय पत्रव्यवहार के लिए वाक्यांश के हिंदी रूप

1. Paper have been amalgamated — कागद-पत्र मिला दिये गये है।
2. For information only — केवल सूचनार्थ
3. Kindly acknowledge receipt — कृपया पावती दें
4. Needful has been done — जरूरी कार्यवाही कर दी गयी है।
5. Submitted for information — सूचनार्थ प्रस्तुत है।
6. For action and report — कार्यवाही एवं रिपोर्ट के लिए।
7. For circulation among all — सब के बीच हस्तांतरण के लिए।
8. Draft has been amended accordingly — प्रारूप तदनुसार संबोधित कर दिया गया है।
9. The proposal is self-explanatory — प्रस्ताव अपने-आप में स्पष्ट है।
10. Ministry of Education may be consulted — शिक्षा-मंत्रालय से परामर्श किया जाय।

**T.Y.B.A. / 70**

11. For favour of guidance — मार्गदर्शन के लिए।
12. The matter is till under — मामला अभी भी विचाराधीन है।
13. For necessary verification — आवश्यक जाँच के लिए।
14. Situation is under Control — स्थिति नियंत्रण में है।
15. Through proper channel — उचित सरणि माध्यम से।
16. Inability to agree — सहमति प्रकट करने में असमर्थता
17. In controvention of — के उपरित, का उल्लंघन
18. Misrepresentation of facts — तथ्यों की गलत बयानी, तथ्यो का गलत ढंग से प्रस्तुतीकरण, अन्यथा-कथन
19. A flord opportunities/ facilities to — को अवसर/सुविधा देना
20. Alike proposals are — प्रस्ताव समान है।
21. As per details below — नीचे दिए ब्यौरे के अनुसार
22. At your earliest convenience — सुविधानुसार जितनी जल्दी हो सके।
23. By virtue of — के नाते, की हैसियत से
24. Copy enclosed for ready reference — तत्काल हवाले/संदर्भ के लिए प्रतिलिपि संलग्न
25. Delay is regretted — देरि/विलंब के लिए खेद है।
26. For the purpose of Act — अधिनियम के प्रयोजन के लिए

कार्यालयीन अनुवाद के लिए नमुने

(1) I am directed to say that Remington typewriter. No of this ministry is not giving satisfactory service and needs certain repair. It is requested that it may be examined in Room No. 225, Vayu Bhavan and an estimate for its repairs sent to this ministry for approval necessary information whether the parts requiring replacement in this machine are worn out/broken/missing may also be given in the estimate.

**T.Y.B.A. / 71**

(2) The undermentioned candidates from the Railway Board have been admitted to the type-writing test to be held by the U.P.S.C. on 5th May, 1991 at the Secretariat Training School, New Delhi. The roll numbers of the candidates and other details are indicated against their names.

Section officers may please inform the staff concerned accordingly.

(3) I am directed to refer to your D.O. letter No. dated the-on the subject mentioned above and to convey the sanction of the President to the ourchase of furniture for the office of at an estimated cost not exceeding Rs. 2500/-

The expenditure will be debitible to the contingent grant of that office and shall be met from the budget grant of the office for the current financial year.

(4) It has been reported that Shri. S. R. Dhake is in the habit of absenting himself from duty frequently and that he generally comes to office late without obtaining prior sanction or even giving intimation. Such behaviour of Shri. S. R. Dhake is highly objectionable, irregular and against office discipline. He is therefore, warned that he should desist from indulging in such practice otherwise suitable disciplinary action will be taken against him.

(5) It has been reported that on Shri ..... was directed to ..... He shrieked from duties and did not complete the allotted work even till the evening.

Shri. .... should explain his conduct. If no reply is received from him within seven day of the issue of this memorandum it will be assumed that has nothing to say in his defence and exparte action will taken against him.

(6) The service record of the above named employee was sent to your office in connection with ..... vide this office letter No. .... date ..... please arrange to return the same to this office duly completed immediately.

**T.Y.B.A. / 72**

(7) With reference to his application dated Shri. .... is informed that extension of leave applied for cannot be granted. He is therefore directed to report for duty in this office at once, failing which appropriate action will be taken against him.

(8) It has been noticed that inspite of repeated instruction several class IV officers do not put on their uniform while on duty in the office. The class IV Officers are once again instructed that during office hours they should invariably put on the uniform supplied to them. In future, if any such officer is found without uniform, he will be sent back home and will be treated on leave without pay for that day.

**Translation : English into Hindi**

*Passage - 1*

It is an accepted fact that there is much unrest in out Universities today. Strikes, Violent demonstrations interference by political parties and anti-social elements-all there have become everyday features of our academic life Teachers and authorities are very conscious of the unusual power of the student world today and are often unable to take action against those guilty of gross misconduct. If nothing effective is done to improve conditions without delay, the time will soon come when our students will agitate to run the Universities themselves as did students in a number of universities in Europe.

*Passage - 2*

The Insured or his legal personal representatives shall give notice in writing to the underwrites as soon as possible after the occurrence of any accident, injury, loss or damage with full particulars thereof. Every letter, claim, writ, summons and process shall be notified or forwarded to the underwriters immediately on receipt. Notice shall also be given in writing to the underwriters immediately the insured or his legal personal



### T.Y.B.A. / 73

representatives shall have knowledge of any impending prosecution, inquest or fatal inquiry in connection with any accident for which there may be liability under this Document.

Book : Communication in English  
—Bhatnagar & Bell.

### हिंदी अनुवाद के लिए परिच्छेद

#### (1) *Computers*

Computers are used now a days for many different kinds of works e.s. in offices, banks, factories, hospitals, Universities and Schools. Their use is becoming more widespread and people can now buy small personal computers.

What are computers? And what can they be used for? Computers are electronic systems used for processing facts and figures known as data. The data fed i.e. the input are processed according to set of instructions called a programme. The input and the programme together give us the output i.e. the information useful for making decisions.

A Course in Technical English  
Book one, Page 13.

#### (2) *Solar Energy*

Amongst the various applications of solar energy Solar water heater is one which can be easily manufactured. The basic elements in a Solar water heater are, a plate collector a storage tank connected to supply a load and an auxiliary energy source. Besides these are means for water circulation and control.

Research is going on to widen the possibilities of harnessing solar energy for the betterment human life. In the near future it will not be surprising to see solar automobiles

## **T.Y.B.A. / 74**

on the roads. Solar ships at the sea and solar televisions in the home.

(A course in technical english book on page 48-49

Somiya Publications Pvt. Ltd.,  
Bombay, New Delhi.

Compiled by-The Curriculum  
Development Centre

Technical Teachers Training Institute,  
Western Pregim, Bhopal.

### *(3) Interview Techniques*

The most vital piece of advice any practised interview will give you is 'Be confident. I am sure a lot of you feel that it is natural to have cold feet while facing an interview. Yes, agreed, you may feel nervous but the interviewers dont have to know it ! Positive thinking is the attitude that will enable you to give a good interview. Tell yourself you can do it. Also yourself confidence will be further boosted if job, find out some details about it its product, range, its advertisement carefully to find out what job you are applying for and what you have to do.

(Communicative Competence in  
Business

English, Page 122, Orient Longman  
Ltd., 1988).

### *(4) Product Advertising*

Advertising is used extensively to promote the sale of product. Improved levels of sales lead to greater profits for procedures. Advertisements are presentations and announcements which are designed to attract public attention. Various types of publicity and media are used for example, leaflets, hoardings radio and T.V. Here the purpose is to inform and persuade people into buying goods and services success

## T.Y.B.A. / 75

in advertising depends upon effective publicity and good presentation.

(Business English-Page 54)

### (5) *Energy Conservation in Vehicles*

Petrol and diesel prices have increased very substantially in the past fifteen years. Fuel economy becomes a very important priority for self driven mopeds, cars, taxi operators and large transport organizations. Several demonstrative and research studies by agencies such as Petroleum Conservation Research Association have shown that 10-15 percent savings in fuel consumption can be easily achieved by the fleet operators, scooterists, car and bus drivers. Slow and steady driving is conducive for fuel economy, avoiding unnecessary acceleration and deceleration and braking by anticipating stops and cures well in advance. By slamming on brakes, the power developed by the engine is wasted.

(Course Material on Energy Conservater for Industrial Training Institute-Page 13. Sponsored by Depart. of Power, Ministry of Energy, Govt. of India National Productivity Council, Lodhi Road, New Delhi.)

### वैज्ञानिक तथा तकनीकी शब्दावली के स्थायी आयोग द्वारा स्वीकृत शब्दावली निर्माण के सिद्धान्त

9. अंतरराष्ट्रीय शब्दों के यथासंभव उनके प्रचलित अंग्रेजी रूपों में ही अपनाना चाहिए और हिंदी व अन्य भारतीय भाषाओं की प्रकृति के अनुसार ही उनका लियंत्रण करना चाहिए। अंतरराष्ट्रीय शब्दावली के अंतर्गत निम्नलिखित उदाहरण दिए जा सकते हैं :

- (क) ऐसे शब्द जो व्यक्तियों के नाम पर बनाए गए हैं जैसे मार्क्सवाद, कार्ल मार्क्स, ब्रेल, ब्रे ला बायकाट,

## T.Y.B.A. / 76

कैप्टिन बायकाट, मिलोटिन, डॉ. मिलोटिनण गैरा मैण्डर, मेरी, आदि.

(ख) ऐसे अन्य शब्द जिनका आमतौर पर सारे संसार में व्यवहार हो रहा है जैसे, टेलिफोन, लाइसेन्स, रायल्टी, परमिट, टेरिफ आदि ।

२. संकल्पनाओं को व्यक्त करने वाले शब्दों का सामान्यतः अनुवाद किया जाना चाहिए ।

३. हिंदी पर्यायों का चुनाव करते समय सरलता, अर्थ की परिशुद्धता और सुबोधता का विशेष ध्यान रखना चाहिए। सुधर-विरोधी और विशुद्धिवादी प्रवृत्तियाँ से बचना चाहिए।

४. सभी भारतीय भाषाओं के शब्दों में यथासंभव अधिकाधिक एकसमता लाना ही इसका उद्देश होना चाहिए और इसके लिए शब्द अपनाने चाहिए तो :

(क) अधिक से अधिक प्रादेशिक भाषाओं में प्रयुक्त होते हों, और

(ख) संस्कृत धातुओं पर आधारित हों।

५. ऐसे देशी शब्द जो सामान्य प्रयोग के पारिभाषिक शब्दों के स्थान पर हमारी भाषाओं में प्रचलित हो गए जैसे telegraphic, telegram के लिए तार, continent के लिए महाद्वीप, post के लिए डाक आदि, इसी रूप में व्यवहार में लाए जाने चाहिए।

६. अंग्रेजी, पुर्तगाली, फ्रान्सीस आदि भाषाओं के ऐसे विदेशी शब्द जो भारतीय भाषाओं में प्रचलित हो गए हैं जैसे टिकट, सिग्नल, पेन्शन, पुलिस, ब्यूरो, रेस्तरा ही लक्स आदि, इसी रूप में अपनाए जाने चाहिए।

७. अंतरराष्ट्रीय शब्दों का देवनागरी लिपि में लिप्यंतरण : अंग्रेजी शब्दों का लिप्यंतरण ।

इतना जटिल नहीं होना चाहिए कि इसके कारण वर्तमान देवनागरी वर्षा में दिए चिन्ह व प्रत प्रतीत शामिल करने की आवश्यकता पड़े।

अंग्रेजी शब्दों का देवनागरीकरण करते समय लक्ष्य यह होना चाहिए कि वह नामक अंग्रेजी उच्चारण के अधिकाधिक अनुरूप हो और उनमें ऐसे परिवर्तन किए जाएँ जो भारत शिक्षित वर्ग में प्रचलित हों।

८. लिंग :

हिंदी में अपनाए गए अंतरराष्ट्रीय शब्दों को, अन्यथा कारण न होने पर, पुल्लिंग रूप में ही प्रत्युक्त करना चाहिए।

९. संकर शब्द :

पारिभाषिक शब्दावली में संकर शब्दों जैसे के guaranteed लिए 'गारन्टित', Classical के लिए 'क्लासिकी', Codifier के लिए 'कोडकार' आदि, के रूप सामान्य और प्राकृतिक भाषाशास्त्रीय प्रक्रिया के अनुसार बनाए गये हैं और ऐसे शब्दरूपों को पारिभाषिक शब्दावली की आवश्यकताओं तथा सुबोधता, उपयोगिता और संक्षिप्तता का ध्यान रखते हुए व्यवहार में लाना चाहिए।

१०. पारिभाषिक शब्दों में संधि और समास :

कठिन संधियों का यथासंभव कम से कम प्रयोग करना चाहिए और संयुक्त शब्दों के लिए दो शब्दों के बीच हाइफन लगा देना चाहिए। इससे नई शब्दरचनाओं को सरल और शीघ्रता से समझाने में सहायता मिलेगी। जहाँ तक संस्कृत पर आधारित 'आदिवृद्धि' का संबंध है। 'व्यावहारिक' 'लाक्षणिक' आदि प्रचलित संस्कृत तत्सम शब्दों में आदिवृद्धि का प्रयोग ही अपेक्षित है परन्तु नवनिर्मित शब्दों में इससे बचा जा सकता है।

११. हलन्त :

नए अपनाए हुए शब्दों में आवश्यकतानुसार हलन्त का प्रयोग करके उन्हें सही रूप में लिखना चाहिए।

१२. पंचम वर्ष का प्रयोग :

पंचम वर्ष के स्थान पर अनुस्वार का प्रयोग करना चाहिए परन्तु lens, Patent आदि शब्दों का लिप्यंतरण लेंस, पेटेंट न करके लेन्स, पेटेन्ट ही करना चाहिए।

T.Y.B.A. / 78

पुरवणीपत्रिका

परिपत्रक क्र. ११२/१९९९ चे परिशिष्ट

तृतीय वर्ष साहित्य

(हिंदी विशेष - ३)

हिंदी साहित्य का इतिहास

(शैक्षणिक वर्ष १९९९-२०००, २०००-२००१, २००१-२००२)

पाठ्यक्रम (आदिकाल से आधुनिक काल तक)

आदिकाल :

- (१) आदिकाल की पृष्ठभूमी :  
(राजनीतिक, सामाजिक, धार्मिक, परिस्थितियाँ संक्षेप में)
- (२) वीरगाथा और रासो साहित्य की प्रवृत्तियाँ  
निम्नलिखित रचनाकारों एवं रचनाओं पर टिप्पणियाँ  
पृथ्वीराज रासो, चंदबरदाई, बिसलदेव रासो, ढोला मारुरा दूहा,  
अमीर खुसरो, विद्यापति

भक्तिकाल :

- (१) भक्तिकाल की पृष्ठभूमी :  
(राजनीतिक, सामाजिक, धार्मिक, परिस्थितियाँ संक्षेप में)
- (२) भक्तिकाल की प्रमुख शाखाओं का सामान्य परिचय :  
(ज्ञानाश्रयी शाखा; प्रममार्गी शाखा, रामभक्ति शाखा, कृष्णभक्ति शाखा  
और, नीतिकाव्यधारा)
- (३) निम्नलिखित रचनाकारों एवं रचनाओं पर टिप्पणियाँ :  
कबीर, जायसी, तुलसीदास, सूरदास, मीराबाई, रहीम, पद्मावत,  
रामचरितमानस, भ्रमरगीत

रीतिकाल :

- (१) रीतिकाल की पृष्ठभूमी और परिस्थितियाँ -  
(राजनीतिक, धार्मिक, सामाजिक और साहित्यिक)
- (२) रीतिकाल की प्रमुख प्रवृत्तियाँ

**T.Y.B.A. / 79**

(३) निम्नलिखित कवियों और रचनाओं पर टिप्पणियाँ –  
केशवदास, मतिराम, रसखान, बिहारी, धनानंद, भूषण, रामचंद्रिका, बिहारी  
सतसई, शिवराज भूषण

*आधुनिक काल - (१०५० ई तक) :*

(१) आधुनिक साहित्य का परिचय :

(क) काव्य -

निम्नलिखित काव्यधाराओं के विकास का संक्षिप्त परिचय -

- (१) भारतेंदुयुगीन काव्यधारा
- (२) द्विवेदीयुगीन काव्यधारा
- (३) राष्ट्रीय काव्यधारा
- (४) छायावादी काव्यधारा
- (५) प्रगतिवादी काव्यधारा
- (६) प्रयोगवादी काव्यधारा

(ख) गद्य -

निम्नलिखित गद्यविधाओं के विकास का संक्षिप्त परिचय -

- (१) उपन्यास
- (२) नाटक

(२) निम्नलिखित साहित्यकारों पर टिप्पणियाँ :

(ग) कवि - (१) मैथिलीशरण गुप्त

- (२) जयशंकर प्रसाद
- (३) सुमित्रानंदन पंत
- (४) सूर्यकान्त त्रिपाठी 'निराला'
- (५) महादेवी शर्मा
- (६) रामधारी सिंह 'दिनकर'
- (७) अज्ञेय

(घ) गद्यकार -

- (१) महावीर प्रसाद द्विवेदी
- (२) रामचंद्र शुक्ल
- (३) हजारीप्रसाद द्विवेदी

**T.Y.B.A. / 80**

- (४) प्रेमचंद
- (५) जैनेंद्र
- (६) यशपाल
- (७) वृन्दाबनलाल वर्मा
- (८) भगवतीचरण वर्मा
- (९) फणीशशरनाथ 'रेणु'

(च) पत्रपत्रिकाएँ :

- (१) सरस्वती
- (२) नागरी प्रचारिणी पत्रिका
- (३) निम्नलिखित रचनाओं पर टिप्पणियाँ :
  - (१) प्रियप्रवास, (२) साकेत, (३) कामायनी,
  - (४) कुरुक्षेत्र, (५) गोदाम, (६) चित्रलेखा, (७) त्यागपत्र

**संदर्भ ग्रंथ सूची**

- |   |                           |
|---|---------------------------|
| (१) हिंदी साहित्य का इतिहास                   | - रामचंद्र शुक्ल          |
| (२) हिंदी साहित्य का इतिहास                   | - डॉ. लक्ष्मीसागर वाष्णीय |
| (३) हिंदी साहित्य का इतिहास                   | - डॉ. देवीशरण रस्तोगी     |
| (४) हिंदी साहित्य और उसकी प्रमुख प्रवृत्तियाँ | - डॉ. गोविंदराम शर्मा     |
| (५) हिंदी साहित्य का सनक्षिप्त इतिहास         | - डॉ. रतन भटनागर          |
| (६) हिंदी साहित्य का इतिहास                   | - डॉ. श्रीनिवास शर्मा     |
| (७) हिंदी साहित्य की प्रवृत्तियाँ             | - डॉ. शिवकुमार शर्मा      |



## T.Y.B.A. / 81

आदिकाल :

प्र. १ - दीर्घोत्तरी अथवा टिप्पणियाँ ३ में से २ - १६ अंक

भक्तिकाल :

प्र. २ - दीर्घोत्तरी अथवा टिप्पणियाँ ३ में से २ - १६ अंक

रीतिकाल :

प्र. ३ - दीर्घोत्तरी अथवा टिप्पणियाँ ३ में से २ - १६ अंक

आधुनिक काल :

प्र. ४ - दीर्घोत्तरी (काव्यपर) अथवा टिप्पणियाँ (३ में से २) - १६ अंक

प्र. ५ - दीर्घोत्तरी अथवा टिप्पणियाँ ३ में से २ - १६ अंक

प्र. ६ - (अ) लघूत्तरी प्रश्न ५ में से ३ - १५ अंक

(आ) एक वाक्यीय उत्तरवाले प्रश्न ७ में से ५ - ०५ अंक

## तृतीय वर्ष साहित्य

### हिंदी विशेष - ४

भाषाविज्ञान, राष्ट्रभाषा आंदोलन का इतिहास तथा निबंध)

(शैक्षणिक वर्ष १९९९-२०००, २०००-२००१, २००१-२००२)

पाठ्यक्रम :

(१) भाषा की परिभाषाएँ तथा भाषा की विशेषताएँ।

(२) (अ) भाषा की विविध रूप-बोली, परिनिष्ठित भाषा, प्रादेशिक भाषा, राजभाषा, राष्ट्रभाषा।

(आ) बोली और परिनिष्ठित भाषा और राजभाषा का पारस्परिक अंतर एवं संबंध।

**T.Y.B.A. / 82**

- (३) हिंदी की बोलियों का सामान्य परिचय -  
बोलियाँ - ब्रज, अवधी, खड़ीबोली, मारवाडी, मेवाडी, दक्खिनी और भोजपुरी, इनके संबंध में भौगोलिक क्षेत्र, साहित्यिक संपदा (लिखित तथा मौखिक) उपबोलियाँ प्रत्येक बोली की अपनी खास विशेषताएँ आदि बातों की जानकारी अपेक्षित।
- (४) भाषा विकास और इनके प्रमुख वाद -  
शारीरिक विभिन्नतावाद, भौगोलिक विभिन्नतावाद, सांस्कृतिक विभिन्नतावाद और प्रयत्नतावाद।
- (५) हिंदी का शब्दसमूह -  
उद्गम के आधार पर वर्गीकरण : तत्सम, अर्धतत्सम, तद्भव, देशज, विदेशी शब्दों का सोदाहरण परिचय।
- (६) भाषाविज्ञान की परिभाषा, भाषाविज्ञान के अंग तथा भाषाविज्ञान की व्याकरण से तुलना।
- (७) ध्वनिविज्ञान -  
ध्वनिविज्ञान की व्याख्या, भाषाध्वनि की परिभाषा, ध्वनियंत्र और उनकी कार्यप्रणाली (उच्चारण प्रक्रिया), ध्वनिवर्गीकरण के आधार (स्थान और प्रयत्न), स्वरों और ध्वनियों का वर्गीकरण, ध्वनिगुण।
- (८) पदविज्ञान -  
शब्द, पद, संबंध तत्त्व और अर्थतत्त्व।
- (९) वाक्यविज्ञान -  
वाक्य की परिभाषा, वाक्य की आवश्यकताएँ, वाक्य में पदक्रम, वाक्य विभाजन। वाक्य विभाजन के अंतर्गत निम्नलिखित विषयों का अध्ययन अपेक्षित है। वाक्य विभाजन के आधार  
(अ) अग्रपश्च। (आ) उद्देश्य - विधेय, (इ) उपवाक्यीय।

**T.Y.B.A. / 83**

(१०) अर्थविज्ञान-

शब्द और अर्थ का संबंध, अर्थपरिवर्तन का स्वरूप, अर्थपरिवर्तन की दिशाएँ, अर्थपरिवर्तन के कारण :

- (१) बल का अपसरण
- (२) पीढी परिवर्तन
- (३) अन्य भाषाओं का प्रभाव लेना
- (४) वातावरण में परिवर्तन
- (५) नम्रता परिवर्तन
- (६) अशोभन के लिए शोभन का प्रयोग
- (७) अधिक शब्दों के स्थान पर एक शब्द का प्रयोग
- (८) एक शब्द के दो रूपों का प्रचलन
- (९) व्यंग्य
- (१०) अंलकारिक प्रयोग
- (११) नवीन वस्तुओं का निर्माण
- (१२) अज्ञान और असावधानी

(११) देवनागरी लिपी - विकास, विशेषताएँ और सुधार के प्रयत्न ।

(१२) (अ) स्वातंत्र्योत्तर काल में राष्ट्रभाषा हिंदी के संवैधानिक स्वरूप का ज्ञान ।

- (आ) संविधान के अनुच्छेद क्रमांक ३४३ से ३५१ का ज्ञान ।
- (इ) राजभाषा अधिनियम १९६३ (संशोधित) का ज्ञान ।
- (ई) राजभाषा प्रसार में संस्थाओं का योगदान ।
- (उ) राष्ट्रभाषा प्रसार में संस्थाओं का योगदान ।

(महाराष्ट्र राष्ट्रभाषा सभा, पुणे राष्ट्रभाषा प्रचार समिती वर्धा, काशी नागरी प्रचारिणी सभा, हिंदी साहित्य संमेलन, प्रयाग)

निबंध : साहित्यिक तथा विवेचनात्मक निबंध ।

**T.Y.B.A. / 84**

*संदर्भ ग्रंथ*

- (१) सुबोध भाषाविज्ञान - डॉ. पीतांबर सरोदे व श्री. विश्वास पाटील
- (२) सामान्य भाषाविज्ञान - बाबुराम सक्सेना
- (३) भाषाविज्ञान प्रवेश - डॉ. भोलानाथ तिवारी
- (४) भाषाविज्ञान - श्री. रावबालक द्विवेदी, प्रो. अवर्धेशकुमार चतुरवेदी
- (५) राष्ट्रभाषा आंदोलन - श्री. गो. प. नेने
- (६) राष्ट्रभाषा प्रचार का इतिहास - सं. श्री. गंगाधरण सिंह,  
श्री. गो. प. नेने
- (७) भाषाविचार - प्रा. वा. ह. जोशी
- (८) अभिनव भाषाविज्ञान - डॉ. ओम्प्रकाश शर्मा

**अंकविभाजन तथा प्रश्नपत्र का स्वरूप :**

- प्र. १ - भाषा से संबंधित दीर्घोत्तरी प्रश्न २ में से १ - १६ अंक
- प्र. २ - भाषाविज्ञान से संबंधित दीर्घोत्तरी प्रश्न २ में से १- १६ अंक
- प्र. ३ - टिप्पणियाँ ४ में से २ - १६ अंक
- प्र. ४ - (अ) संक्षिप्त उत्तरवाले प्रश्न ६ में से ४ - १६ अंक  
(आ) एक वाक्यीय उत्तरवाले प्रश्न ४ - ०४ अंक
- प्र. ५ - टिप्पणियाँ ४ में से २ - १६ अंक  
(टिप्पणियों का प्रश्न राष्ट्रभाषा तथा नागरी लिपि के संदर्भ में होगा)
- प्र. ६ - निबंध किन्हीं ५ विषयों में से १ पर लिखना होगा- १६ अंक

**हिंदी विशेष ४ भाषाविज्ञान, राष्ट्रभाषा आंदोलन का इतिहास तथा निबंध**

**(क) भाषाविज्ञान**

१. भाषा की परिभाषाएँ तथा भाषा की विशेषताएँ।
२. (अ) विविध रूप-बोली, परिनिष्ठित भाषा, प्रादेशिक भाषा, राजभाषा,  
राष्ट्रभाषा।  
(आ) बोली और परिनिष्ठित भाषा और 'राजभाषा तथा राष्ट्रभाषा  
का पारस्परिक अंतर एवं संबंध'

**T.Y.B.A. / 85**

३. हिंदी की बोलियों का सामान्य परिचय -  
बोलियाँ ब्रज, अवधी, खड़ी बोली, मारवाड़ी, मेवाड़ी, दक्खिनी और भोजपुरी, इनके संबंध में भौगोलिक क्षेत्र, साहित्यिक संपदा (लिखित तथा मौखिक) उपबोलियाँ प्रत्येक बोली की अपनी खास विशेषताएँ आदि बातों की जानकारी अपेक्षित।
  ४. भाषाविकास और उनके प्रमुख वाद -  
शारीरिक विभिन्नतावाद, भौगोलिक विभिन्नतावाद, सांस्कृतिक विभिन्नतावाद, और प्रयत्नलाघव।
  ५. हिंदी का शब्दसमूह -  
उद्गम के आधार पर वर्गीकरण : तत्सम, अर्धतत्सम, तद्भव, देशज, विदेशी शब्दों का सोदाहरण परिचय।
- (ख) राष्ट्रभाषा आंदोलन का इतिहास
१. स्वातंत्र्यपूर्वकालीन राष्ट्रभाषा हिंदी का इतिहास।
  २. स्वातंत्र्योत्तर काल में हिंदी के संविधानिक स्वरूप का ज्ञान।
  ३. संविधान के अनुच्छेद क्रमांक ३४३ से ३५१ का ज्ञान।
  ४. राजभाषा अधिनियम १९६३ (संशोधित) का ज्ञान।
  ५. राजभाषा अधिनियम १९७६ का ज्ञान।  
भाषाविज्ञान तथा निबंध-लेखन
- (क) भाषाविज्ञान
१. भाषाविज्ञान की परिभाषा, भाषाविज्ञान के अंग तथा भाषाविज्ञान की व्याकरण से तुलना।
  २. ध्वनिविज्ञान -  
ध्वनिविज्ञान की व्याख्या, भाषाध्वनि की परिभाषा, ध्वनियंत्र और उनकी कार्यप्रणाली (उच्चरण प्रक्रिया), ध्वनिवर्गीकरण के आधार (स्थान और प्रयत्न), स्वरों और ध्वनियों का वर्गीकरण, ध्वनिगुण।
  ३. पदविज्ञान -  
शब्द, पद, संबंध तत्त्व और अर्थतत्त्व।

४. वाक्यविज्ञान -  
वाक्य की परिभाषा, वाक्य की आवश्यकताएँ, वाक्य में पदक्रम, वाक्य विभाजन। वाक्य विभाजन के अंतर्गत निम्नलिखित विषयों का अध्ययन अपेक्षित है। वाक्य विभाजन व आधार (अ) अग्रपस्व। (आ) उद्देश्य-विधेय। (इ) उपवाक्यीय।
५. अर्थविज्ञान -  
शब्द और अर्थ का संबंध, अर्थपरिवर्तन का स्वरूप, अर्थपरिवर्तन की दिशाएँ, अर्थपरिवर्तन के कारण - १. बल का अपकरण, २. पीढी परिवर्तन, ३. अन्य भाषाओं का प्रभाव लेना, ४. वातावरण में परिवर्तन, ५. नम्रता प्रदर्शन, ६. अशोभन के लिए शोभन का प्रयोग, ७. अधिक शब्दों के स्थान पर एक शब्द का प्रयोग, ८. एक शब्द के दो रूपों का प्रचलन, ९. व्यंग्य, १०. आलंकारिक प्रयोग, ११. नवीन वस्तुओं का निर्माण, १२. अज्ञान और असावधानी।

(ख) निबंध—साहित्यिक तथा विवेचनात्मक निबंध पूछे जाएँ।

संदर्भ ग्रंथ

१. सुबोध भाषाविज्ञान - डॉ. पीताम्बर सरोदे व श्री. विश्वास पाटील, रुचिरा प्रकाशन, पुणे.
२. सामान्य भाषाविज्ञान - बाबुराव सक्सेना, प्रकाशन हिंदी साहित्य संमेलन, प्रयाग
३. भाषाविज्ञान प्रवेश - डॉ. भोलनाथ तिवारी, प्रकाशन 'शब्दकार', दिल्ली ६.
४. भाषाविज्ञान - श्री. शवबालक द्विवेदी और प्रो. अवधेशकुमार चतुर्वेदी, प्रकाशन 'प्रथम', रामबाग, कानपूर.
५. राष्ट्रभाषा आंदोलन - श्री. गो. प. नेने, प्रकाशन महाराष्ट्र राष्ट्रभाषा सभा, पुणे.
६. राष्ट्रभाषा प्रचार का इतिहास - सं. श्री. गंगाधरण सिंह, श्री. गो. प. नेने आदि, प्रकाशन अखिल भारतीय हिंदी संघ, नई दिल्ली.
७. भाषाविचार - प्रा. वा. ह. जोशी
८. 'अभिनव भाषाविज्ञान' - डॉ. ओम्प्रकाश शर्मा.

## **(7) Compulsory English**

(1996-97, 1997-98, 1998-99)

Text Books for T.Y.B.A. Compulsory English

General English Paper–III, Special Paper–III and IV

### **Compulsory English**

- (1) Animal Farm .. George Orwell  
(Orient Longman)
- (2) Saint Joan .. G. B. Shaw  
(Orient Longmen)
- (3) Success with Grammar and Composition  
(Units 2, 6, 9 and 12 only) :  
K. R. Narayanswamy (Orient Longman)

**T.Y.B.A. / 88**

**APPENDEX**

**UNIVERSITY OF PUNE  
T.Y.B.A.  
COMPULSORY ENGLISH  
QUESTION PAPER FORMAT  
(Tentative)**

- |   |           |
|---|-----------|
| 1. Vocabulary   | —20 Marks |
| 2. Grammar (Isolated sentences<br>not to be asked as far as possible) | —15 Marks |
| 3. Reference Skills/Notemaking/<br>Information Transfer               | —15 Marks |
| 4. Summarising/Expansion of ideas                                     | —15 Marks |
| 5. Essay Writing (Guided composition)                                 | —15 Marks |
| 6. Dialogue Writing   | —10 Marks |
| 7. Presentation Skills/Interview                                      | —10 Marks |

**G - 3 : English Literature from 1798 to 1890.**

In place of

- (1) Kubla Khan, and
- (2) Ode to the West Wind.

The following Poems from *The Winged Word* to be studied :

- (1) Dejection : An Ode Coleridge.
- (2) Dejection Near Naples Shelley.

Other selections remain unchanged.



**T.Y.B.A. / 89**

**Format of the Question Paper**

**G - 3 : ENGLISH SPECIAL AND GENERAL**

**Paper G - 3 : English Literature from 1798 to 1890.**

**(Time : 3 hours)**

1. (a) Explain with reference to the context any *three* of the following :  
(Six extracts from Poetry to be given). 15
- (b) Identify *any one* of the following passages and write a paragraph of about 25—30 lines on its relevance/significance in the light of the points/hints given below each passage :  
(Attempt *any one* of the given passages. Two extracts to be given, one each from *David Copperfield* and *Wuthering Heights*). 10
2. (a) A long answer type question on *Romantic Poetry* (on a poem or two/three poems).  
OR  
(b) A long answer type question on *Victorian Poetry* (on a poet/s poem or two/three poems).  
OR  
(c) Short notes on any *two* :  
(5 items to be given). 20
3. (a) A long answer type question on *David Copperfield*.  
OR  
(b) A long answer type question on *David Copperfield*.

**T.Y.B.A. / 90**

OR

- (b) Short notes on any *two* :  
(4 items to be given). 20

4. (a) A long answer type question on *Wuthering Heights*

OR

- (b) A long answer type question on *Wuthering Heights*

OR

- (c) Short notes on any *two* :  
(4 items to be given). 20

5. (a) A long answer type question on 19th Century literature/background/literary history and thought.

OR

- (b) A long answer type question on Romanticism/  
background, history of Romantic poetry.

OR

- (c) A long answer type question on literary history/  
background/thought/trends in Victorian literature  
or Victorian novel. 15

**T.Y.B.A. / 91**

**ENGLISH SPECIAL : PAPER - III**

**(Functional English)**

*Course Contents :*

*A. Orientation :*

1. Characteristics and functions of language.
2. The structural (Formal) and Functional approaches to language.
3. Level of Linguistic Analysis (Introductory) :
  - (i) Phonetics and Phonology.
  - (ii) Morphology.
  - (iii) Syntax.
  - (iv) Semantics.
4. Pragmatics : What is pragmatics :
  - (i) Politeness Principle.
  - (ii) Cooperative Principle.
  - (iii) Speech Acts : Locutionary, Illocutionary, Perlocutionary.
5. Language Skills, their importance and various ways of acquiring them.
6. Dialects (Regional and Social) and National Varieties :
  - (i) Br. English.
  - (ii) Am. English.
  - (iii) Indian English.
7. Style and Register.
8. Grammaticality and Acceptability.

**T.Y.B.A. / 92**

*B. Spoken English :*

1. Introduction to phonemic symbols and transcription of words.

2. Important Contrasts :

/ I / — / i : /   / v / — / w /   / n / — / n /

/ e / — / eɪ /   / s / — / z /

/ b / — / β : /   / s / — / ð /

/ d / — / 3 : / — / ^ / dʒ / — / z / — / ʒ /

3. Word Accent and Accentual Patterns,

4. Sentence Accent and Weak Forms.

5. Intonation : Division of Sentences into tone groups, identifying tonic Syllabus.

Tones : (i) Falling Tone.

(ii) Rising Tone.

(N.B. : The theoretical explanation to be kept to the minimum.)

*C. Grammar :*

1. From English Grammar for Today : A New Introduction.)

(i) What grammar is and is not,

(ii) Sentences and their parts,

(iii) Words,

(iv) Phrases,

(v) Clauses.

2. Word formation :

(i) Affixation,

(ii) Compounding,

(iii) Conversion.

**T.Y.B.A. / 93**

*References :*

- Language and its Structure—R. W. Langcker.
- Five Great Indian Novels (Discourse Analysis)—  
Ashok Thorat.
- Principles of Pragmatics—G. N. Leech.
- The Use of Grammar—R. Quirk.
- A University Grammar of English—Quirk and Greenbouam.  
(Chapter : One and App. I).
- David Crystal—Linguistics.
- Better English Pronunciation—J.D.O. Conner.  
A Text book of English Phonetics for Indian Students—  
T. Balasubramaniam.
- English Grammar for Today (A New Introduction)—  
G. N. Leech.

**T.Y.B.A.  
ENGLISH SPECIAL : PAPER - III  
(FUNCTIONAL ENGLISH)**

**Question Paper Format**

	<i>Marks</i>
1. Short answer question on Orientation. (4 out of 6)	20
2. Practical questions on Orientation.	20
3. Short answer question on Spoken English. (2 out of 3).	10
4. Practical questions on Spoken English. ( <i>N.B.</i> : A question of 8 marks on transcription of words and marking accent will be compulsory.)	20
5. Short answer questions on Grammar (2 out of 3).	10
6. Practical questions on Grammar.	20

**T.Y.B.A. / 94**

**ENGLISH SPECIAL PAPER - IV**

**Course Title : Introduction to Literary Criticism and Critical Appreciation.**

**Item. 3 (A) : Principles of Literary Criticism.**

- (i) What is Criticism ? Definition and Principles.
- (ii) Fine Arts and Useful Arts.  
Literature as Fine Art—definition and characteristics.
- (iii) Theory of imitation; poetic truth and historic truth.
- (iv) Qualifications of a good Critic.

**Item. 3 (B) : Critical Approaches to literature—Biographical, Sociological and Psychological approaches.**

**Item. 3 (C) : Contributions/Theories of Some Selected Critics.**

- (i) Philip Sidney : Superiority of poetry over other Sciences/disciplines. (From Apology for Poetry).
- (ii) Samuel Johnson : Defence of Shakespeare's violation of Unities and intermingling of the tragic and the Comic in drama. (From Preface to Shakespeare).
- (iii) William Wordsworth : Definition of poetry; Language of Poetry; Subjects of Poetry (From Preface to Lyrical Ballada).
- (iv) Matthew Arnold : Three kinds of estimates of poetry; the Touchstone method of evaluating poetry (From Study of Poetry).
- (v) T. S. Eliot : Concept of Tradition, historical sense.

**T.Y.B.A. / 95**

**Item. 3 (D) : Literary and Critical Concepts and Terms :**

1. Allusion.
2. Ambiguity, connotation and denotation.
3. Bathos (Anti-climax).
4. Simile, metaphor, onomatopoeia, symbol, imagery, conceit, epithet.
5. Motif and theme.
6. Wit and humour.
7. Empathy and Sympathy.
8. Irony, Sarcasm, Satire, Paradox.
9. Genre.
10. Persona, Tone and Vice.
11. Interior Monologue and Stream of consciousness.
12. Setting and local colour.
13. Classicism, Neo-classicism, Romanticism, Realism, Naturalism, the Absurd, Modernism, Symbolism.
14. Allegory and personification.
15. Asides, Soliloquies.
16. Comic Relief.
17. Poetic justice.
18. Intentional fallacy.
19. Anachronism.
20. Byronic hero.
21. Round and Flat Characters.
22. Interludes.
23. Literature of knowledge and Literature of power.

**Item. 3 (E) : Applied or Practical Criticism :**

One Unseen poem/poetic passage to be set.

*Reference Books :*

1. Worsfold, Basil—Judgement of Literature.
2. Scott, James—Making of Literature.

**T.Y.B.A. / 96**

3. Schrieber—Introduction to Literature Criticism.
4. Hudson, W. H.—Introduction to the study of Literature.
5. Prasad, Brijeshwar—Introduction to Literary Criticism.
6. Scot, Wilbur—Five Approaches to Literature.
7. Brooks & Wim Satt—A Short History of Literary Criticism.
8. Butcher, S. H.—Aristotle's Poetics.
9. House, Humphry—Aristotle's Poetics.
10. Lucas, F. L.—Tragedy.
11. Hamer, Enid—Metres of English Poetry (Chapter-I).
12. Chickera, Ernest—English Critical Texts.
13. Abrams, M. A.—A lossary of Literary Terms.
14. Monfries, Helen—Critical Appreciation.
15. Sethuraman—Practical Criticism.
16. Philip, Sidney, Samuel Johnson, Wordsworth, Mathew Arnold—Macmillan's Annotated Critical Texts.
17. Eliot, T. S.—Tradition and the Individual Talent.

**English Special Paper - IV**

**Pattern of Question Paper**

**Annual Examination**

Marks : 100

1. (a) One full answer question on the topics under Section 3(A) of Course content—Principles of Literary Criticism. 20
- OR
- (b) Two short answer questions to be answered out of three alternatives on the same topics in Section 3(A). 20
2. Two short answer questions to be answered out of three alternatives on the topics in Section 3(B). 20



**T.Y.B.A. / 97**

3. Two short answer questions to be answered, out of three alternatives—on the topics under Section 3(C) of Course Content—Contributions of Critics.  
(Aristotle, Sidson, Wordsworth, Arnold, T. S. Eliot). 20
4. Four short answer questions to be answered out of six alternatives, on the items in Section 3(D) of the Course Contents—Literary and Critical terms/concepts. 20
5. One poem (unseen) to be set with 5 or 6 questions set on the poem. 20

T.Y.B.A. / 98

**Appendix**

पुणे विद्यापीठ  
परिपत्रक क्र. १९२/२०००

**विषय : टी.वाय.बी.ए. इंग्रजी क्रमिक पुस्तकाबाबत.**

विद्यापीठ अधिकार मंडळाच्या निर्णयानुसार सर्व संबंधितांना कळविण्यात येते की, तृतीय वर्ष बी.ए. इंग्रजी सक्तीचे व विशेष पेपर ३ व ४ आणि सामान्य पेपर ३ ह्या विषयासाठी सोबतप्रमाणे क्रमिक पुस्तके नेमण्यात येत आहे.

पुढे असेही कळविण्यात येते की, सदर क्रमिक पुस्तके शैक्षणिक वर्ष २०००-२००१ पासून अमलात येतील.

सोबत : क्रमिक पुस्तकांची यादी जोडली आहे.

गणेशखिंड, पुणे-४११००७  
जा. क्र. सीबीडी/३६१०  
दि. २४-५-२०००

**ना. म. कदम**  
कुलसचिवांकरिता

**T.Y.B.A. / 99**

**Prescribed Text-books as per New Pattern T.Y.B.A.  
English (Compulsory, G-3, S-3 and S-4).**

**(a) Compulsory English :**

Book prepared by the Board of Studies in English.

**(b) General Paper-3 :**

**(I) The Winged Word**

Edited by David Green, Published by MacMullan.

The following Poems only :

- (a) Lines Writen—Tintern Abbey  
W. Wordsworth
- (b) Kubla Khan—S. T. Coleridge
- (c) When We Two Parted—Lord Byron
- (d) Ode to the West Wind—P. B. Shelley
- (e) Bright Star—John Kents
- (f) Ode To Autumn—John Kents
- (g) In Memorian (From the Epilogue)—Lord  
Tennyson
- (h) A Grammarian's Funeral—Robert Browaing
- (i) Memorial Verses—Mathew Arnold
- (j) The Blessed Damozel—Rossetti.

**(II) Wuthering Heights : Emile Bronte.**

**(III) David Copperfield : Charles Dickens.**

**T.Y.B.A. / 100**

**Format of Question Paper - English Special Paper III**

*An Introduction to the Study of the English Language-I.*

- I. *The Nature of Language* : Topics :
  - (a) Characteristics of Language-Language as an articulated system of signs, speech the primary medium of Language.
  - (b) The difference between speech and writing.
  - (c) Functions of Language.
  - (d) Levels of Linguistic analysis : Phonetics, Phonology Graphology, Lexicology, Morphology, Syntax, Semantics.
- II. *The Sounds of Speech* : Phonetics :
  - (a) Branches of Phonetics.
  - (b) The organs of speech.
  - (c) Place of and manner of articulation.
  - (d) Levels of Linguistic analysis : Phonetics, Phonology.
  - (e) Vowels, Consonants, Semivowels.
  - (f) The Phonetic alphabet.
- III. *The Sound of English* : Phonology : (First Term)
  - (a) The Study of distinctive sounds : the notions, 'Phoneme' and 'allophone'.
  - (b) The vowels of R.P.
  - (c) The Consonants of R.P.
  - (d) Phonetic analysis of English Phonemes :
    - (i) Vowels (ii) Consonents.
  - (e) Problems in the inventory of English Phoneme.
  - (f) A comparison between the R.P. and the Indian English vowels and consonants.
  - (g) The Structure of English phonemic syllabus.

**T.Y.B.A. / 101**

- IV. *Grammar in use* : (First Term)
- A. Contents
- (a) Referring to objects, substances and materials.
  - (b) Abstractions
  - (c) Amount of Quality.
  - (d) Definite and indefinite meaning.
  - (e) Relations between ideas expressed by nouns.
  - (f) Restrictive and non-restrictive meaning.
  - (g) Time-tense and aspect.
  - (h) Time-when.
  - (i) Duration.
  - (j) Frequency.
  - (k) Place direction and distance.
  - (l) Manner, means and instrument.
  - (m) Cause, reason and purpose.
  - (n) Condition and Contrast.
  - (o) Degree.
  - (p) Role, Standard and Viewpoint.
  - (q) Comparison.
  - (r) Addition, exception and restriction.

*Practical Work*

1. Practical in a prescribed form of phonetic transcription (recommended A. S. Hornby et. al ! The Advanced Learners Dictionary of Current English Language), reading aloud and writing.
2. Practice in using a pronouncing dictionary.
3. Drawing the following diagrams/charts :
  - (a) Organs of speech.
  - (b) The primary cardinal vowels chart.
  - (c) The English vowels chart and the positions of R.P. and Indian English vowels and
  - (d) The English Consonant Chart.

**T.Y.B.A. / 102**

I. *The English Language Today* : (Second Term)

- (a) The importance of English.
- (b) Varieties of English and Classes of varieties Regional variation, standard English, National standards of English, British, American Indian. Varieties according to subject-matter. Varieties according to medium. Varieties according to Interference. Relationship between variety classes : varieties within a variety.
- (c) Present day trends.

II. *The phonology of English* : (Second Term)

- (a) The stress in English : Word stress, sentence stress, grammatical stress (e.g. expert (N), expert (V), present (N) present (V).
- (b) The intonation system of English.
- (c) Rhythm.
- (d) Week forms.

III. *Grammar in use* : (Second Term)

- A. Information, reality and belief :
  - (a) Statements questions and responses.
  - (b) Omission of information.
  - (c) Reported statements and question.
  - (d) Denial and affirmation.
  - (e) Agreement and disagreement.
  - (f) Fact, hypothesis and neutrality.
  - (g) Degree of Likelihood.
  - (h) Attitudes to truth.
- B. Mood, emotion and attitudes :
  - (a) Emotive emphasis in speech.
  - (b) Describing emotion.
  - (c) Volition.
  - (d) Permission and obligation.
  - (e) Influencing People.
  - (f) Friendly communications.
  - (g) Vocatives.

**T.Y.B.A. / 103**

- C. Meaning in connected discourse :
- (a) Linking signals.
  - (b) Linking constructions.
  - (c) 'General purpose' links.
  - (d) Substitution and Omission.
  - (e) Presenting and focusing information.
  - (f) Order and emphasis.

*Prescribed Books* : Anderson N.L. & Stagebeig N.L.

1. Introductory Reading on Language. Rev.: Third Edition, 1966.
2. Bansal R.K. and Harrison G.B.-Spoken English for India.
3. Brook G.L.-History of English Language-London.
4. Leoch G. and S. Vertivik J.  
A Communicative Grammar of English-Longman, 1975  
ELBS.
5. O' Connor, J.D.-Better English Pronunciation-ELBS, 1970.
6. Quirk Reteal- A University Grammar of English Longman  
Ch. I, Appendix II.
7. Strang Barbara, M.H. : Modern English Structure-London,  
Edward Arnold,1962.

*Recommended Books*

1. Bolinger Dwight-Aspects of Language-Harcomat, Brace & Jonavich, 1975.
2. Derbyshine A.E.-A Description of English, New Delhi, Arnold Heineman, 1972.
3. Gimson A.C.-An Introduction to the Pronunciation of English, E.L.B.S., 1970.
4. Spellings-Dictation Pieces, O.U.P., 1964.
5. Langacker R.W.-Language and its Structure, New York-Hercorint, Brace and Ward, 1973, 2nd Ed.
6. Balasubramaniyam-A Text Book of English Phonetics, Macmillan.
7. Hooper-A Quick English Reference (Part I only).

**T.Y.B.A. / 104**

**Appendix**

**Circular No. 192/2000**

सदर क्रमिक पुस्तके शैक्षणिक वर्ष २०००-२००१ पासून अमलत येतील.

**(c) Special Paper-3 :**

**Reading list :**

- (a) Spoken English for India—Bausal+Harrison
- (b) A Text book of English Phonetics—  
T. Balasubramanian
- (c) Grammar—Christopher Sandvid
- (d) English Conversational Practice—Grand Scot
- (e) Five Great Indian Novels—A Discourse Analysis-  
Ashok Thorat
- (f) Principles of Pragmatics—G. N. Leech
- (g) Varieties of English—J. L. B. Moody
- (h) University Grammar—Quick and Greenbaum
- (i) Aspects of Language—R. W. Langacker
- (j) Introduction to Linguistics—Wardhangh.



**T.Y.B.A. / 105**

**English Special Paper IV (S-4)**

**Text Prescribed**

- (I) Shakespeare :
- (i) Macbeth-ed. B.Groom (New Clarendon - O.U.P.)
  - (ii) Twelfth Night-ed. J.C.Dent (New Clarendon-O.U.P)
- (II) Literary Criticism :

*Topics*

- (1) Why study Literature.
- (2) Elements of Poetry.
- (3) Elements of Drama.
- (4) Elements of Fiction.
- (5) Nature and function of Criticism.
- (6) Practical Criticism.

*Books Recommended*

May head Robin-Understanding Literature (Blackie and Sons).

Abrams M.H.-A Glossary of Literary Terms (Macmillan).

Coombes H.-Literature and Criticism (Penguin).

Hudson W.H.-An Introduction to the Study of Literature.

Monfries Helon-An Introduction to Critical

Appreciation of foreign literature (Macmillan).

V.Safarman, C.T.Indra and T.Shriraman-The Practical Criticism (Macmillan).

Watson George-The study of Literature.

Schrieber-An Introduction to Literature Criticism (O.L.).

Murphy-Understanding Unsans.

**T.Y.B.A. / 106**

**Circular No. 192/2000**

सदर क्रमिक पुस्तके शैक्षणिक वर्ष २०००-२००१ पासून अमलात येतील.

**(d) Special English Paper-4 :**

**Reading list :**

- (a) Critical Approaches to Literature—David Daiches
- (b) Five Approaches to Literature—Scott
- (c) Introduction to Literary Criticism—Schriber
- (d) Literary Terms—M. H. Abrams
- (e) Understanding Unseens—C. J. Murphy
- (f) Understanding Poetry—Helen Monfries
- (g) Theory of Literature—Rene Wellee and Austen  
Waren.

**T.Y.B.A. / 107**

**Format of Question Paper**

**ENGLISH SPECIAL PAPER IV-S-4**

Total Marks : 100

Time : 3 hours

Total number of questions five (with adequate options).

All questions carry equal marks.

Q. 1. Long answer type question on Twelfth Night (a. b. c).

Q. 2. Long answer type question on Macbeth (a. b. c).

Q. 3. A topic from literary criticism  
a long answer type question.

Q. 4. A topic from literary criticism  
a long answer type question.

Q. 5. Practical criticism : a poem of about 14 to 20 lines.

T.Y.B.A. / 108

(८) संस्कृत

(१९९७-९८ पासून)

टी.वाय.बी.ए सामान्य पेपर -३

(१) स्वप्नवासवदत्तम्

(२) नीतिशतकम्

विशेषस्तर - प्रश्नपत्रिका ३

(१) लघुकौमुदी - संज्ञा, समास आणि कारक

(२) वैदिक वाङ्मयाचा इतिहास

(३) संस्कृतमध्ये भाषांतर किंवा निबंधलेखन

विशेषस्तर - प्रश्नपत्रिका ४

(१) वेदान्तसार

(२) तर्कसंग्रह

संस्कृत (प्रश्नपत्रिकेचे स्वरूप)

टी.वाय.बी.ए. जनरल पेपर-३ (स्वप्नवासवदत्तम्, नीतिशतकम्)

प्र. १: भाषांतर

(अ)भाषांतर (स्वप्न) ५ पैकी ३ १५

(ब) भाषांतर (नीति) ५ पैकी ३ १५

प्र. २: (अ)संदर्भासह स्पष्टीकरण (स्वप्न) ४ पैकी २ १२

(ब) संदर्भासह स्पष्टीकरण (नीति) ४ पैकी २ १०

प्र. ३: दीर्घोत्तरी प्रश्न (स्वप्न) २ पैकी १ १८

प्र. ४: विवेचक परिच्छेद (स्वप्न) २ पैकी १ १०

प्र. ५: लघूत्तरी प्रश्न ४ पैकी २ (नीति) २०

टी.वाय.बी.ए. स्पेशल पेपर ३ (लघुकौमुदी, वै. वा. इतिहास)

प्र. १: (अ)शूत्राचे व वृत्तिभागाचे सोदाहरण स्पष्टीकरण ४ पैकी २ ८

(ब) अधोरेखित शब्दांचे विभक्त्यर्थ स्पष्ट करा ४ पैकी २ ६

**T.Y.B.A. / 109**

प्र. २: (अ)स्पष्टीकरणात्मक टीपा ४ पैकी २	६
(ब) सचिन्ह समास ओळखा ४ पैकी २	६
(क)समास बनवा ४ पैकी २	८
प्र. ३: दीर्घोत्तरी प्रश्न (वेद) २ पैकी १	२०
प्र. ४: (अ)दीर्घोत्तरी प्रश्न (वा. उप. वेदांग) २ पैकी १	२०
(ब) विवेचक परिच्छेद ८ पैकी २	२०
प्र. ५: संस्कृतात भाषांतर किंवा निबंधलेखन	१०
<b>टी.वाय.बी.ए. स्पेशल पेपर ४ (वेदान्तसार, तर्कसंग्रह)</b>	
प्र. १: भाषांतर (वेदान्तसार) ४ पैकी २	१६
प्र. २: स्पष्टीकरण वेदान्तसार ४ पैकी २	१६
प्र. ३: दीर्घोत्तरी प्रश्न किंवा विवेचक परिच्छेद ४ पैकी २	१८
प्र. ४: स्पष्टीकरण (तर्क) ६ पैकी ४	२०
प्र. ५: (अ)दीर्घोत्तरी प्रश्न २ पैकी १	१४
(ब) टीपा ४ पैकी २	१६
५ : विवेचक परिच्छेद २/४	१६
	१००

**संस्कृत**

**तृतीय वर्ष बी.ए. संस्कृत**

**टर्म एण्ड**

**जनरल पेपर-३**

**१**

१. स्वप्नवासवदत्ता

२. नीतिशतकम्

**स्पेशल पेपर-४**

(१) ब्रह्मसूत्र शांकरभाष्य स्मृतिपादातील ७ अधिकरणे - १

(१) स्मृति (२) योगप्रत्युक्ति (३)

(४) इतरव्यपदेश (५) कृत्स प्रसक्ति (६) प्रयोजनक्ति

(७) वैषम्य नैर्घृण्य

(२) अर्थशास्त्र-विनयाधिकरण (१) आणि मंडल योनी

**T.Y.B.A. / 110**

**स्पेशल पेपर-३**

टर्म एण्ड

- 9 व संस्कृताचे भाषांतर
- (१) सिद्धान्तकौमुदी (कारक प्रकरण)
  - (२) तर्कसंग्रह फक्त प्रमाणविचार
  - (३) संस्कृतमध्ये भाषांतर किंवा निबंधलेखन

**T.Y.B.A. / 111**

**(9) Persian**

**Appendix**

**UNIVERSITY OF PUNE**

**Circular No. 188/2000**

**T.Y.B.A. Persian (General Paper-III)**

**(2000-2001, 2001-2002, 2002-2003)**

- (A) Rahbar-e-Nazad-e-Bav-Chapter II & III
- (B) Chahar Maqala by Nizami Aruzu Samarqandi. (Chapter-II and III)
- (A) Portion for the Term End Examination :
- (a) Intekhab-e-Parsi-e-Jadid.
- (b) Translation of unseen passage of Persian in English  
Total marks : 60 (2 hours duration)  
No. of questions : 4 (with internal choice)

**Pattern of question paper**

- (i) Critical appreciation of Essays or their Author's life sketch and their literary contribution. 20
- (ii) Question on the subject-matter of the Essays of Intekhab-e-Parsi-e-Jadid. 15
- (iii) Reference to context. Three out of five passages from the Intekhab-e-Parsi-e-Jadid. 15
- (iv) Translation on unseen Persian passage into English 10

---

Total marks : 60

**T.Y.B.A. / 112**

- (B) Portion for Annual Examination :  
Portion prescribed as above.  
Total marks : 80 (3 hours duration)  
No. of questions : 5 (with internal choice)

**Pattern of question Paper**

- (i) Critical appreciation of Essays or their Author's life sketch and their literary contribution. 15
- (ii) Translation of 3 passages out of 5 from the Intekhab-e-Parsi-e-Jadid into Urdu or Marathi or English. 16
- (iii) Critical question on Nizami Aruzu Samarqandi or on the book or his age. 15
- (iv) Reproduction of story from Chahar Maqala in Persian (1 out of 3). 10
- (v) Translation of 3 passages out of 5 from Chahar Maqala. 24

—————  
Total marks : 80

T.Y.B.A. Persian (Special Paper III)  
(2000-2001, 2001-2002, 2002-2003)

As per the previous syllabus.

T.Y.B.A. Persian (Special Paper IV)  
(2000-2001, 2001-2002, 2002-2003)

As per the previous syllabus.

Ganeshkhind, Pune-411007.  
Ref. No. L CBA/  
Date :

**N. M. Kadam**  
*for Registrar.*



**T.Y.B.A. / 113**

**General Paper-III (G-3)**

**Persian  
(Special Paper-III)**

As per the previous syllabus.

**Persian  
(Special Paper-IV)**

As per the previous syllabus.

**T.Y.B.A. / 114**

**(10) Arabic**

**Arabic General (G-3)**

- (A) (1) Grammar and (2) Essay.
- (1) Qiratul Waheeda Part-III by Waheeduzzman, Keranwi.  
Lessons : 15, 17, 23, 28, 46, 55, 56.
- (2) Essay : Based on the Text.
- (B) Prose and Poetry.
- (1) Prose : Mukhatarat-Min-al-Arab by A. H. Nadvi.  
Lessons : (1) Ibad-ar-Rahman. (2) Jawame-al-Kalim.  
(3) Ad-deen-as-sanai, (4) Al-Kookh-wal-qaser.
- (2) Poetry : Majmooa-Min-Nazam-Wan-Nathr. : by Mohammed Sharif Saleem.  
The eminent poets :
- |                       |                           |
|-----------------------|---------------------------|
| (1) Hafiz Ibrahim     | 23 couplets (complete)    |
| (2) Al-Barudi         | 7 23 couplets (complete)  |
| (3) Abul-ala-al-Marri | 15 23 couplets (complete) |
| (4) Al-buhtari        | 12 23 couplets (complete) |
| (5) Busshar-bib-burd  | 10 23 couplets (complete) |
| (6) Abul-Atahiya      | 14 23 couplets (complete) |
| (7) Al-Farzdaq        | 14 23 couplets (complete) |
| (8) Ahu-Tammapur      | 15 23 couplets (complete) |

## **(11) French (G-3)**

### **French (from 1993)**

- (a) A vous de lire (Book 2)
  - (1) Alphonse Daudet  
Le secret de maltre Cornile.
  - (2) Victor Rugo.  
La mort de Gavroche.
  - (3) La Bruyere : Theramene
  - (4) Guy de Maupassant : Histoire vraie
  
- (b) A vous de lire (Book 3)
  - (1) Arthur Rimband.  
Dormeur du Val.
  - (2) Charles Baudelaire.  
Invitation au voyage.
  - (3) Joachim Du Bellay.  
Heureux qui comme Ulysse.
  - (4) Leconte de Lisle : Midi

*Grammar* : Topic from Mauger II

Lessons : 37 to 65 (grammar only).

### **New Course (From 98/99)**

From the book : Selection of French Texts for S.Y. & T.Y.B.A. French Course (General), University of Pune, 1997.

Section A : Dossier

4. Medias 5 : La vie moderne

Dossier 6 : Francophonie

Dossier 7 : Facon de vivre

**T.Y.B.A. / 116**

- Section B : Grammaire  
Section C : Expression Orale et écrite-Resumer, Ecrire une lettre, Les marque du codes orale, Les figures de rhétorique, Exercices de style  
Section D : Traduction.

**SPECIAL PAPER III  
(19th Century French Literature & History of France)**

- (a) Study of the following authors and their works as in 'Sommets Litteraires':  
(i) Lamartine : Le, lac.  
(ii) Balzat : Pere Goriot.  
(iii) V. Hugo : Fonction du Poete.  
(iv) Vigny : La mort du Lour and Mont des Olivers.  
(v) Gautier : L'art.  
(vi) Baudelaire : L'albatros, Elevation, Correspondence, Harmonie du soir, Recueillement.  
(vii) Flaubert : Mme. Bovary  
(viii) Verlaine : L'Art Poetique  
(ix) Rimbaud : Voyelles  
(b) History-From the book 'Histoire, de France' Chapters 17 to 25.

**SPECIAL PAPER IV  
(20th Century French Literature and Geography of France)**

- (a) Study of the following authors from 'Sommets Litteraires'  
(i) Charles Peguy-  
Adieux de Jeanne d' Arc,  
Hereux ce qui sont morts.

**T.Y.B.A. / 117**

- (ii) Paul Claudel-  
La jeune fille donne un baiser au  
le prux
- (iii) Marcel Proust-  
Madeleine et the
- (iv) Francois Mauriac-  
Tentative de l'empoisonnement.
- (v) Colette-  
Unelecon de coquetterie.
- (vi) Appollinaire-  
Pont Mirabeau, Colombe poignardee.
- (vii) Monterlant-La Reine Morte.
- (viii) Duhamel-La nouvelle de ;'Heritage.

Geography : from the book "Geographic" Chapters 1, 2, 3.

**Question Paper Format/Pattern and Distribution of  
Marks for T.Y.B.A. Special Paper III**

- (A) Question on literature  
qu. 1, 2, 3 of 20 marks each (20×3=60)  
Q. 4 RTC 20 Marks
- (B) History of France 20 marks

*T.Y.B.A. Special Paper IV*

- (A) Question on literature 80  
qu. 1, 2, 3 of 20 marks each (20×3=60)  
qu. 4 RTC 20 marks.
- (B) Geography of France 20 marks.

**T.Y.B.A. G III**

- (A) Oral Examination : 25 marks

**T.Y.B.A. / 118**

- (B) Written Examination : 75 marks
- Qu.—1. Short questions based on Texts : 15 marks
  - Qu.—2. Long question based on texts : 10 marks
  - Qu.—3. Precis/Comprehension : 10 marks
  - Qu.—4. Grammar and vocabulary : 20 marks
  - Qu.—5. Translation
    - a. English into French : 10 marks
    - b. French into English : 10 marks

**T.Y.B.A. / 119**

**(12) German**

**Appendix**

**UNIVERSITY OF PUNE**

**Circular No. 108/99**

**T.Y.B.A. (German)**

- I Paper No. : Special Paper III - 100 Marks
- II Paper Title : Study of Literature in German - Adv. Level
- III Objectives of the Paper : To continue the study of literature begun in Sp. Paper I and consolidate the understanding by reading longer and more significant works while using/applying the concepts of critical study
- IV Contents : (a) A dramatic work from modern period. The proposed work is 'Der Besuch der alten Dame' by Dürrenmatt.  
(b) Longer Prose Narratives - App. 1  
(c) Selections from Poetry - App. 2
- V Weightage : (a) Study of Drame 40%  
(b) Prose Narratives 25%  
(c) Poetry 20%  
(d) Translation of an unseen literary passage 15% for community.

**T.Y.B.A. / 120**

**APPENDIX : III/1**

1. Die Verbotenen Baume : Jurek Becker
2. Der Nachbar : Franz Kafka
3. Domenica : Wolf Wondratschek
4. Unsterblich wie Steine : Gerhard Zwerenz.  
nur weniger hart
5. Die Butows : Gabriele Wohmann
6. Die Linkshänder : Günter Grass (not attached  
in Appendix).

**APPENDIX : III/2**

1. Die Nachtigall : Th. Storm
2. Das Aesthetische Wiesel : Chr. Morgenstern
3. Vereinsamt : Fr. Nietzsche
4. Kälbermarsch : B. Brecht
5. Der Pflaumenbaum : B. Brecht
6. Inventur : G. Eich
7. Alle tage : I. Bachmann
8. Vorsichtshalber : H. Domin
9. Middle Class Blues : H. M. Enzensbergen
10. 68 Lebensjahre : Kri. Bauerhorn
11. Stiefmüllerchen Revolution : G. Kunert
12. Farben : Ror Wolf
13. Floskeln : R. Otto Wiemer
14. Hiroschima : Marie L. Kaschnitz
15. Nimm deinen Segen : B. Wegner
16. Warn meine Hände : B. Wegner
17. Alte Frau : Arun Kolatkar  
Übersetzt Von
18. Bhagwadgita : H. Hesse
19. Inder : Th. Daubler
20. Sakontala : Goethe



**T.Y.B.A. / 121**

- I Paper No. : Special Paper IV - 60 Marks  
(40 marks are for oral examination)
- II Paper Title : German Culture and Civilization  
Adv. Level
- III Objectives of the Paper : (a) To further the knowledge of German culture and civilization begun in Sp. Paper II making use of 4 elementary types of writing an essay :  
1. Report (Bericht)  
2. Interview  
3. Discussion (Erörterung)  
4. Subjective (Fantasizing)  
(b) Applying the contrastive method i.e. reference to the Indian reality as their understanding of the present world is to be enhanced.
- IV Contents/Tasks : (a) An essay of 300 upto 500 words depending on the form  
(b) Selected texts to illustrate the family, work and media aspects of the German Culture - Appendix 1.  
(c) Vocabulary exercises based on these texts.
- V Weightage : (a) Essay 25 marks  
(b) Comprehension 20 marks of the texts  
(c) Vocabulary exercises 15 marks

**T.Y.B.A. / 122**

**APPENDIX : IV/1**

1. 'Ein ganz beliebiger' : Maxie Wander
2. Der Beruf des Vaters : Michael Scharang
3. Ankunft in Indien : Lukas Hartmann
4. Die Grenzen and Möglichkeiten  
des Sozialstaates
5. Auf gro Ber Fahrt zu : Medientext (advt.)  
den Perlen der Südsee
6. Wenn junge Menschen nicht : Maria M. Held  
mehr leben wollen
7. Am Bana-Tagebuchaufzeichnungen  
WAS SAGEN SIE  
DAZU ?  
Hueber  
ISBN 3-19-00.1354-3
8. Über das Essen : —,—

**T.Y.B.A. / 123**

**TY.B.A.**

I	Paper No.	:	General Paper III-100 Marks
II	Paper Title	:	Use of Language
III	Objectives	:	(a) To help the students savour small but authentic samples of the German language while training them with further grammar and syntax using both literary and non-literary texts Appendix-1. (b) Train them for basic independent work with the language like letter-writing, precis, gist-writing etc.
IV	Contents	:	(1) Third part of the Textbook Sprachkurs Deutsch (Hausermann et.al.) is to be prescribed. (2) Contents from App. 1
V	Weightage	:	(a) Literary and non-literary texts App. 1 30% (b) Grammar, vocabulary and syntax 25% (c) Letter 10% * (d) Comprehension/precise/Gist 20% (e) Translation from German into English 15%

\* = of an unseen passage.

**T.Y.B.A. / 124**

**APPENDIX : G III/1**

1. Was ist ein Computer ?
2. Am Anfang war Eva
3. Untergang der Wale
4. Wegen mir soll kein Tier leiden
5. Bionik
6. Zwei Bäcker
7. Der propre Ganter
8. Früher war das ..
9. Fische
10. Fremdsprachen
11. Ohne Gepäck
12. Über Berufe

## **T.Y.B.A. / 125**

Revised List of Prescribed Texts and Recommended Books  
(Effective from June 1994).

- N.B. :*
- (1) The prescribed texts and recommended books are changed w.e.f. June 1994.
  - (2) The syllabus, examination pattern and distribution of marks remain unchanged, until otherwise decided and duly notified.

### **1. GERMAN-General Paper II**

(Study of Sach-und Fachtexte)

Prescribed for textual study :

B. B. Kulkarni : Sach-und Fachtexte fur den  
Deutschunterricht-2. Reihe (Hektographiertes Leseheft).

### **2. GERMAN-Special Paper III**

(Study of longer Narratives and Drama/Horspiale)

Prescribed Narratives :

1. Stefan Zweig-Die Gouvernante.
2. Heinrich Mann-Abdaankung.
3. Siegfried Lenz-Amusierdokter.
4. Martin Walser-Ich suchte eine Frau.
5. Gabriele Wohmann-Treibjagd.

Prescribed Drama :

Fr. Durrenmatt-Herkules and der Stall des Augias.

### **3. GERMAN-Special Paper IV**

(Study of Poetry, Essay writing and Oral)

Prescribed Poems :

B. B. Kulkarni-German Verse-An Anthology for  
Indian Students.

Serial Nos. 7, 8, 9, 14, 15, 16, 20, 21, 22, 23, 24, 31, 39, 40,  
42, 44, 47 and sixteen more from 47 to 62.

Essay writing and Oral :

No prescribed book. (The Teacher may use any suitable  
material).

**Appendix**

**Question Paper format for T.Y.B.A. German**

**GERMAN-GENERAL PAPER II**

**(3 hours, 100 Marks)**

- |   |    |
|---|----|
| (1) Long-answer (content-oriented) questions on the prescribed Sach-und Fachtexte (2 out of 4/5).                       | 20 |
| (2) Short-answer questions on Sach-und Fachtexte (6 out of 8/9).  | 30 |
| (3) Translation from German into English (Unseen).  | 10 |
| (4) Translation from English into German (Unseen).  | 10 |
| (5) Writing an informative letter to a German pen-friend about some given local, or India topical subject (1 out of 3). | 15 |
| (6) Precis/Summary of an unseen German Passage.   | 15 |

**GERMAN-SPECIAL PAPER III**

**(3 hours, 100 Marks)**

(Dramatic Texts and Longer Narrative Texts)

There shall be in all only 5 (five) questions, each offering adequate internal options and carrying 20 marks each : Two questions shall be exclusively on the narrative.

Texts, another two shall be on the Dramatic Texts, and the 5th question of several shorter questions on both the Narrative and the Dramatic Texts. (e.g. short notes, explanation of textual quotations, specific terms used in literary criticism or appreciation, etc.)

**T.Y.B.A. / 127**

**GERMAN-SPECIAL PAPER IV**

**(Poetry, Essay-Writing & Oral)**

*N.B.* : The Examination for this Paper shall consist of two parts :

PART ONE—Written Paper (3 hours, 50 marks), and

PART TWO—Oral examination to be taken separately by the Panel of Examiners (50 Marks).

*Written Paper :*

- (1) An Essay in German on one of the 3 to 5 given topics, to be written after giving a brief 'Gliederung' (i.e. point-by-point synopsis) 25
- (2) Critical questions on the prescribed poems (3 out of 5/6) 15
- (3) Content-oriented questions on the prescribed poems (e.g. Grundgedanke, Inhaltsangabe, etc.) - (2 out of 3/4) 10

*Oral Test :* (To be taken separately for each Candidate by a Panel of at least two examiners).

This should consist of

- (a) Reading aloud a self-contained unseen passage.
- (b) Answering questions on the passage, concerning the meaning of contents, its style, specific grammatical points involved in it, the views of the author expressed in it, etc.
- (c) A brief 3 to 5 minutes extempore talk on a topic to be given 15-20 minutes prior to the oral test of the individual Candidate.

Consolidated marks (out of 50) should given, given due weightage to pronuciation, intonation, fluency, accuracy, capacity, case and clarity of expression.

**T.Y.B.A. / 128**

**(13) Russian**



### (14) Pali (G-3)

(प्रत्येक पेपरसाठी १०० गुण असून ८० गुण लेखीसाठी व २० गुण तोंडीसाठी)

जनरल पेपर : (१) उदान (१, २, ३)  
(२) चरियापिटक

स्पेशल पेपर २ : History of Pali Literature (B.C. Law) Vol. 1.  
पालीच्या उताऱ्यांचे भाषांतर/निबंधलेखन.

स्पेशल पेपर ३ : (१) कच्चायनव्याकरण (सुंध, कारक, समास)  
(२) जातक (Ed. by M. S. Rananive)  
पाठ क्र. १ ते ३३.

**(15) Ardhamagadhi (G-3)**

**जनरल पेपर (G-3)**

- (अ) 'नलकहा' -  
(कुमारपाल प्रतिबोध)  
(ब) अंजणापवणजयवृत्तन्तु (पउमचरिउ संधि १८, १९)

**स्पेशल पेपर-३ टर्म एण्ड**

- (अ) प्राकृत साहित्याचा इतिहास -  
१. श्वेतांबर - आगस साहित्याची स्थूल कल्पना  
२. महाकाव्य - पउमचरियं, सेतुबंध, गउडवहो,  
लीलावर्द्ध, कुमारवालचरिय  
३. काही प्राकृत साहित्यिक - हेमचंद्र हरिभद्र  
देवेन्द्रगणी, पुष्पदंत, कुंदकुंद  
४. काही प्राकृत ग्रंथ-समराइच्चकहा,  
धुताक्खाण, कुमाररालपर्डिबोह,  
समयसार, करकण्डचरिउ  
५. सट्टक  
(ब) गाहासत्तसई (हालकृत) २ रे शतक  
पुढील गाथा वगळून - ९, ११, २२, २३, ३७, ३८, ५६, ५७,  
५८, ५९, ६०, ६१, ७४, ७६, ९९

**स्पेशल पेपर-४**

- प्राकृत व्याकरण - सिद्ध-हेम-शब्दानुशासन ८ वा अध्याय  
(अ) देशी, तत्सम, तद्भव शब्द, स्वर, संधि (अ) संपूर्ण  
मध्य व अन्त्य व्यंजने (ब) १ ते ४

**T.Y.B.A. / 131**

- (ब) उच्चार विकृती-(१) स्वरभक्ती (२) केवलीकरण (क) शब्दरूपांतर  
(३) अनुनासिक विषाद(४) वर्णागम (ड) महाराष्ट्री अर्धमागधी  
(५) वर्णलोप (६) सवर्णलोप (इ) भाषांतर  
(७) वर्णविपर्याय (८) संप्रसारण (फ) निबंधलेखन  
(९) मूर्धन्यनिपात
- (क) शब्दरूपांतर-संस्कृतचे प्राकृत व प्राकृतचे संस्कृत
- (ड) पुढील भाषांची वैशिष्ट्ये -१. महाराष्ट्री, २. अर्धमागधी, ३. मागधी,  
४. शौरसेनी, ५. पेशाची
- (इ) प्राकृत उताऱ्याचे भाषांतर
- (फ) निबंधलेखन (अर्धमागधीत)
- (प) गाथांचे भाषांतर - पृष्ठ २८८ ते ३७६ यांवरील गाथा

**अर्धमागधी सामान्य - ३ : (प्रश्नपत्रिकेचे स्वरूप)**

- |   |    |
|---|----|
| प्र. १ (अ) भाषांतर करा (नलकहा) ४ पैकी २     | १६ |
| (ब) संदर्भासह स्पष्टीकरण ४ पैकी २           | १० |
| प्र. २ (अ) भाषांतर करा (अंजणा) २ पैकी १     | १४ |
| (ब) संदर्भासह स्पष्टीकरण ४ पैकी २           | १० |
| प्र. ३ दीर्घोत्तरी प्रश्न (नलकहा) २ पैकी १  | १६ |
| प्र. ४ दीर्घोत्तरी प्रश्न (अंजणा) २ पैकी १  | १६ |
| प्र. ५ (अ) विवेचक परिच्छेद (नलकहा) २ पैकी १ | ९  |
| (ब) विवेचक परिच्छेद (अंजणा) २ पैकी १        | ९  |

T.Y.B.A. / 132

**(16) Philosophy**

**G-3 : Philosophy of Art and Literature**

**OR**

**Philosophy of Religion**

**S III-Epistemology & Metaphysics**

**S IV-Contemporary Philosophy**

**G-3 : Philosophy of Art and Literature**

*Section I :*

**Philosophy of Art :**

1. Nature of Philosophy of Art, Autonomy of aesthetics; Nature of aesthetic experience and work of art; Creation, appreciation and evaluation of a work of art; Aesthetic and non-aesthetic evaluation; Logical features of aesthetic judgement.

2. Types of Art : Nature and aesthetic features of Painting, Dance, Music, Sculpture and Literature.

3. Nature of Art : Art as imitation; Art as intuition, Art as expression, Art as communication; Art as significant from philosophical problems concerning the above.

4. Some concepts of aesthetics : Beauty, Sublime Work of art, and aesthetic objects. Problem of defining concepts in aesthetics.

*Section II :*

**Philosophy of Literature :**

5. Aesthetics and literary criticism; Art and morality, Philosophical problems concerning the relation between the two (with special reference to literature), Cultural relativism in the field of creation and criticism.

6. Nature of a literary work of art. Significance of form and relevance of context in literature. Role of medium.

**T.Y.B.A. / 133**

7. Nature and aesthetic features of story, poem, play, novel and tragedy.

8. Some concepts of Indian aesthetics : Rasa, Bhava, Dhvani.

*List of Books*

*Books for reading :*

1. Aidrich : Philosophy of Art.
2. Patankar, R. B. : Aesthetics and Literary Criticism.
3. Mardhekar, B. S. : Art and the man.
4. पाटणकर, रा. भा. : सौंदर्यमीमांसा.
5. Langer Susan : Problems of Art.

*Books of Reference :*

1. Langer Susan : Feeling and Form
2. Daiches David : Critical Approaches to Literature.
3. Deshpande, G. T. : Abhinavagupta (Sahitya Academy Publication).
४. डॉ. बारलिंगे, सु. शि. : सौंदर्याचे व्याकरण.
५. मर्ढेकर, बा. सी. : सौंदर्य आणि साहित्य.
६. ढवळे, वि. ना. : साहित्याचे तत्त्वज्ञान.
७. कंगले, रा. प. : प्राचीन काव्यशास्त्र
८. दंडुगेकर, मुंडगेकर (संपा.) : शोकनाट्याची मूलतत्त्वे.
९. जोशी, रा. भी. (अनुवाद) : कला आणि मानव.
१०. देशपांडे, ग. त्र्यं. : भारतीय साहित्यशास्त्र.

**OR**

**G-3 : Philosophy of Religion**

*Section I :*

1. Nature of religion; its origin and development; Religion and God.
2. Nature and problems of philosophy of religion; Philosophy of Religion and Theology; Philosophy of Religion and Philosophy.

**T.Y.B.A. / 134**

3. Concept of God; Attributes of God; Proofs for the existence of God.

4. God and the world : Deism, Theism and Pantheism.

*Section II :*

5. Nature and Validity of Religious experience; Revolution, Mysticism.

6. Practice of Religion : Workship, rites and rituals, Symbolism and Sects.

7. Religion and Morality; Problem of evil, Sin Merit; Grace and Salvation.

8. Place of Religion in human life; Religion State and individual. Concepts of Secularism Religions, tolerance and problem of conversion.

*List of Books*

*Books for Reading :*

1. John Hick—Philosophy of Religion-Prentice Hall.
2. Thomas M. C. Pherson—Philosophy of Religious Belief.
3. जोशी, जे. व्ही. - धर्माचे तत्त्वज्ञान.

*Books for Reference :*

1. रसेल बर्ट्रांड - धर्म आणि विज्ञान.
2. Dr. Radhakrishnan—Recovery of faith.
3. Dr. Radhakrishnan—Religion and Culture.
4. Mitchell—Philosophy of Religion (Oxford Reading in Philosophy).
5. Donald Smith—India as a secular State.
6. महात्मा जोतीबा फुले - सार्वजनिक सत्यधर्म.

**T.Y.B.A. / 135**

**Philosophy**

**Special Paper III**

**EPISTEMOLOGY AND METAPHYSICS**

*Section I*

**Theory of knowledge**

*Topic 1 :*

- 1.1 Centrality of Epistemological issues in Philosophy.
- 1.2 Relationship of epistemology to other branches of Philosophy.
- 1.3 Elements of knowledge-concept, image and pro-position.
- 1.4 Source of knowledge-(a) Sense experience, (b) Reason, (c) Authority, (d) Infection, (e) Faith.
- 1.5 Skepticism.

*Topic 2 :*

- 2.1 Notion of truth-as a characteristic of proposition.
- 2.2 Truth and belief.
- 2.3 Criterion for truth- (a) Swatahpramayna, (b) Paratahpramanya, (c) Correspondence, (d) Coherence, (e) Utility.
- 2.4 Notion of error-(a) Nyaya theory, (b) Mimamsa theory.

*Topic 3 :*

- 3.1 A priori and a posteriori propositions.
- 3.2 Analytic and synthetic propositions.
- 3.3 Characterising mathematical and logical principles in terms of the above.
- 3.4 Principle off verifiability : nature and scope.

*Topic 4 :*

- 4.1 Nature of Universals.
- 4.2 Theories regarding the metaphysical-status of Universals (a) Realism, (b) Conceptualism, (c) Nominalism, (d) Family resemblance.

**T.Y.B.A. / 136**

*Section II*  
**Metaphysics**

*Topic 1 :*

**Concept of change and causality :**

- 1.1 Nature of (a) metaphysics and epistemology, Possibility of metaphysics, nature of metaphysical inquiry, Statement of the view of metaphysics expressed by Kant, Hume, Ayer, Marx, Dewey, Sartre.
- 1.2 Concept of change, metaphysical problem concerning the nature of change, Arguments for the unreality of change-idealistic position.
- 1.3 Realist's position of the nature of change, Criticism of idealistic position.
- 1.4 Principle of Causality-causal relation as a necessary relation. Hume's account of causality, Philosophical consequences of Hume's position.
- 1.5 Kant's criticism of Hume's position, Kant's view of causality.
- 1.6 The Nyaya theory of causation.
- 1.7 Buddhist theory of causation.
- 1.8 Sankhya theory of causation.
- 1.9 Problem of Determinism Vs. Freedom. Nature of free will.
- 1.10 Theory of Karma—Statement and Criticism.

*Topic 2 :*

**Concept of Mind :**

- 2.1 Problem of mind-body relation.
- 2.2 Interactionism-statement and criticism.
- 2.3 Behaviourism-statement and criticism.
- 2.4 Mind-brain identity theory-statement and criticism.
- 2.5 Concept of self-Atman and Antahkarana Chatushtaya (Indian View).
- 2.6 Problem of personal identity.



**T.Y.B.A. / 137**

*Topic 3 :*

**Nature of the External World :**

- 3.1 Concept of material object-problem concerning their metaphysical status.  
Are material objects real or unreal ?
- 3.2 Realism-statement and criticism with special reference to naive and critical forms of realism.
- 3.3 Idealism-statement and criticism.
- 3.4 Phenomenalism-statement and criticism.

*Topic 4 :*

**Categories :**

- 4.1 Treatment of categories by Aristotle.
- 4.2 Treatment of categories by Kant.
- 4.3 Russell's theory of types.
- 4.4 Ryle's doctrine of category mistake.

*Books for Reading*

Section I and II

1. Hospers John-Introduction to Philosophical Analysis, Allied Publishers, 1971.
2. Ewing A. C.-Fundamental Questions in Philosophy-Macmillan, 1951.
3. Hiriyanna N.-Outlines of Indian Philosophy-Allen and Unwin, 1932.
4. Beck L. W. and Robert Holms-Philosophical Inquiry, Prentice Hall, 1967.
5. Ryle G.-Article on Categories and Cha. I from 'Concept of Mind'.

**T.Y.B.A. / 138**

*Books for reference for both Sections*

1. Hospers Hohn-Readings in Introduction to Philosophical Analysis-Prentice Hall, 1963
2. Titus H. S. and Hepp M. H.-The Range of Philosophy, Affiliated East West Press, 1974.
3. केतकर, मा. ग. - (अनु.) भारतीय तत्त्वज्ञानाची रूपरेषा, पुणे विद्यापीठ.
4. जोशी, ग. ना. - पाश्चात्य तत्त्वज्ञानाची रूपरेषा, पुणे विद्यापीठ.
5. अंतरकर, स. शि. - भाषा, सत्य आणि तर्क.
6. बखले, सु. वा. - (अनु.) रसेल.
7. शं. वा. दांडेकर - अध्यात्मशास्त्राची मूलतत्त्वे.
8. बा. र. सुठणकर - जडवाद.

**PHILOSOPHY SPECIAL**

**Paper IV**

**CONTEMPORARY PHILOSOPHY**

**Section I : Analytical Philosophy**

**Topic 1-Nature and methods of analytical philosophy**

- 1.1 History and background of analytical philosophy-a brief survey.
- 1.2 Method of analysis-(a) Moore's method of analysis, (b) Reductive analysis, (c) Logical construction, (d) Ordinary language analysis.
- 1.3 A brief study of some doctrines illustrative of the above methods-(a) Morre's view of Good, (b) Phenomenalism and Physicalism, (c) Logical atomism, (d) Russell's theory of definite descriptions, (e) Wittgenstein's view of language-comparison of Tractatus and Philosophical investigations.

**Topic 2-Main concepts of analytical Philosophy**

- 2.1 Concept of meaning-
  - (a) Moore's view of meaning.
  - (b) Denotative theory of meaning.
  - (c) Logical Postivist's verification-principle.
  - (d) Wittgenstein view of meaning-picture theory vs. Use theory of meaning.
- 2.2 Concept of necessity-
  - (a) Distinction between contingency and necessity.
  - (b) Logical necessity-criteria of necessity.
  - (c) Analyticity and necessity.
  - (d) Synthetic a prior judgements-Kant's view and its refutation by the logical positivists.
  - (e) Analytic synthetic distinction-explanation and criticism.

**Section II : Existentialism**

**Topic 3-Nature existentialism and existentialist methods.**

- 3.1 A brief history and background of existentialism.
- 3.2 Salient features of existentialism.
- 3.3 Development of aesthetic and theistic forms of existentialism.
- 3.4 Heidegger's phenomenological method.
- 3.5 Sartre's method and approach.
- 3.6 Marcel's method and approach.
- 3.7 Place of existentialism in the contemporary philosophical thought.

**Topic 4-Main concepts of existentialist Philosophy.**

- 4.1 Human existence-nation of subjectivity-Heidegger, Sartre and Marcel on the nature of human existence.
- 4.2 Being and nothingness-Heidegger's concepts of 'sein' and 'desein'- Heidegger's view of 'Nothingness'-Sartre's view of 'Nothingness'-Sartre's view of human consciousness.

**T.Y.B.A. / 140**

- 4.3 Freedom-existentialist interpretation of freedom-with special reference to Sartre, Sartre on commitment and decision.
- 4.4 Concept of authenticity-bad faith, dread and alienation.

*Books for Reading*

1. Urmsom j O-Philosophical Analysis.
2. Warnock, G. J.-English Philosophy since 1900.
3. Blackham, H. J.-Six Existentialist Thinkers.
4. Warnock M.-The Philosophy of Sartre.

*Books for Reference*

1. Ayear, H. J.-Language Truth and Logic.
2. Ammerman, R. R. (ed.)-Classics of Analytic Philosophy.
3. Kaufman, W. (ed.)-Existentialism from Kierkegaard to Sartre.
4. Schrader, G. A. (ed.)-Existential Philosophers : Kierkegaard to Merleau-Ponty.

*Marathi Books*

- (१) अंतरकर, शि. स. : (अनु.) भाषा, सत्य आणि तर्क.
- (२) बेडेकर, दि. ले. : अस्तित्ववादाची ओळख.

**(Please see Appendix - Circular No. 233/1995)**

T.Y.B.A. / 141

**(17) Psychology**

**G-3 Applied Psychology**

**OR**

**Industrial Psychology**

**S III-Experimental Psychology (Theory)**

**S IV-Experimental Psychology (Practical)**

**Applied Psychology (G-3)**

1. *Nature, Scope, Fields of Applied Psychology*
  - 1.1 Definition of Psychology, Nature of theoretical and applied psychology.
  - 1.2 Field of Applied Psychology  
Major fields : Educational, clinical, industrial and organizational psychology- Personnel, organizational, Engineering consumer.
  - 1.3 Subfields of Applied Psychology  
Counselling, environment, criminal, law, family, community, rural development, health, sports, military, space.
2. *Clinical Applications of Psychology*
  - 2.1 Stress : Nature and definition, sources of stress, stressors, effects of stress, stress management.
  - 2.2 Classifications of mental disorders (DSM-R-III-1987).
  - 2.3 Psychotherapy techniques : Psychoanalytically oriented psychotherapies, Behaviour therapy, learning therapy, cognitive therapy, humanistic therapy, psychiatry, group therapy.
3. *Education Application of Psychology*
  - 3.1 Competence : Definition, Nature, Scope and types.
  - 3.2 Applications of psychology in education. Role of educational Psychologists, Role of school psychologists, Role of teacher.

## T.Y.B.A. / 142

- 3.3 Evaluation in education : Nature of evaluation, Evaluation types, Evaluation techniques.
- 3.4 Vocational psychology
  - Nature and importance of vocational psychology vocational choice : Theories of vocational choice, influencing factors on vocational choice and vocational adjustment.
- 4. *Family Life Applications*
  - 4.1 Psychology of family-definition, nature, types and functions of family.
  - 4.2 Communication and introduction in family.
  - 4.3 Marriage, interaction, marital adjustment.
  - 4.4 Divorce, effect of divorce, some suggestions for avoiding divorce.
  - 4.5 Psychology of women-  
Historical overview, definition and nature of women psychology, some physical and cultural differences and their effects, women perspectives in psychological theory, psycho-social dimension in women's life.
- 5. *Applications of Psychology in Industry*
  - 5.1 Engineering psychology-Man-machine-Environment system; Functions and Engineering psychologist, job-setting.
  - 5.2 Consumer psychology; nature, factors influencing on consumer buying-consumer impart, information reception, memory systems, consumer decision, personal factors; functions of consumer psychologist, methods used by consumer psychologist-survey, projection, observation and T.V. programme; factors in effective advertising; recent trends in consumer psychology laterization, children and advertising, consumer compliance techniques-Bait and switch, Low-call, Foot-in-the-door-techniques, reciprocity.

**T.Y.B.A. / 143**

6. *Organizational Psychology*
  - 6.1 Organization : definition, nature & characteristics.
  - 6.2 Organizational psychology-definition and nature.
  - 6.3 Major fields of organizational psychology.
  - 6.4 Personnel psychology; Personal selection and placement.
  - 6.6 Management Development Programme (E.D.P.)
7. *Social Applications - I*
  - 7.1 Psychology of Social Change; Types of social change, Measurement of social change.  
Influencing factors on social change, Psychological studies and role of psychologist in social change.
  - 7.2 Psychology of Social Movement : Nature, types of social movements, methods of studying social movements.
  - 7.3 Psychology of social work.
8. *Social Applications-II*
  - 8.1 Psychology of Rural Development-meaning and concept, characteristics of rural person.
  - 8.2 Psychology of Superstitions-definition, Errors in superstition-perception, also memory and judgement, cognitive reference of superstition -a social event. Types of Supersitition, and ways of overcoming superstitions.
  - 8.3 Social Aggression.
    - 8.3.1 Violence : Mass media and violence, Social learning theory, causes of group violence.
    - 8.3.2 Terrorism : definition and characteristics of terrorists, four hypothesis of terrorism.

**T.Y.B.A. / 144**

9. *Environmental Applications*

- 9.1 Study of environment : definition, characteristics and scope.
- 9.2 Noise pollution : effects on performance of noise pollution, Noise pollution and social behaviour, personal effects of noise pollution.
- 9.3 Crowding-types of spatial zones, consequences of high density.
- 9.4 Population psychology-Issues of population psychology-deprivation, migration, urban stress, motivation for birth control.

10. *Other Applications of Psychology*

- 10.1 Psychology and law : Contribution of psychology to law.
- 10.2 Psychology in Politics-Political socialization, dimensions of political behaviour, power and politics, voting behaviour, political behaviour in group.
- 10.3 Military psychology-Personnel selection and training, problems in space travelling, adjustment to military living, resource moral and productivity; reactions to disasters-brain-washing, DDD syndrome, designing equipment, psychological warfare.
- 10.4 Sport-psychology-personality and athletic performance, motivational model, sport performance and social motivations, secondary reinforcement, audience effect and team-cohesiveness.



**T. Y. B. A. Psychology : G-3**  
**Industrial and Organizational Psychology**  
**(Revised from June 2000)**

*Objectives :*

To acquaint the students with

1. Basic concepts of Industrial Psychology and Organizational Behaviour.
2. The applications of Psychological principles in the industrial setting.
3. To present a new perspective about industrial and organizational behaviour.

**1. Introduction to Industrial Psychology and Organizational Behaviour Periods 12**

- 1.1 Nature, Scope and definition of Industrial Psychology.
- 1.2 Aims and objectives of Industrial Psychology.
- 1.3 Fields of Industrial Psychology :
  - (i) Personnel Psychology.
  - (ii) Consumer Psychology.
  - (iii) Advertisement and Salesmanship.
  - (iv) Human Engineering Psychology.
  - (v) Organizational Psychology.
  - (vi) Social Industrial Psychology.
- 1.4 Nature and Definition of Organizational behaviour.
- 1.5 Theoretical framework : Cognitive, behaviouristic, social learning framework.
- 1.6 Organizational Behaviour Model.

**T.Y.B.A. / 146**

**2. Personnel Selection and Training                          Periods 10**

- 2.1 Steps in Personnel Selection.
- 2.2 Techniques of Personnel Selection I : Application blank, Personal data sheet, Interview.
- 2.3 Techniques of Personnel Selection II : use of Psychological tests.
- 2.4 Identifying training needs.
- 2.5 Different training techniques.

**3. Human Relations    Periods 10**

- 3.1 The nature, purpose and importance of human relations.
- 3.2 The forces influencing behaviour at work :
  - (i) Organizational culture.
  - (ii) Supervisory management influence.
  - (iii) Work-group influence.
  - (iv) Job influence.
  - (v) Personal characteristics of the worker.
  - (vi) Family influence.
- 3.3 Major themes in human relations :
  - (i) Communication.
  - (ii) Self-awareness.
  - (iii) Self-acceptance.
  - (iv) Motivation.
  - (v) Trust.
  - (vi) Self-disclosure.
  - (vii) Conflict-management.
- 3.4 New approach to success.
- 3.5 Towards right livelihood :
  - (i) Work as vehicle for self-expression.
  - (ii) Relationship with money.
  - (iii) Non-financial resources-Physical and mental health

- 4. Communication** **Periods 10**
- 4.1 The communication process :
    - (i) Impersonal Vs Interpersonal Communication.
    - (ii) Sender-Message Receiver.
  - 4.2 Communication filters :
    - (i) Semantics.
    - (ii) Emotions.
    - (iii) Attitudes.
    - (iv) Role expectation.
    - (v) Gender biases.
  - 4.3 Ways to improve personal communication—Sending clear messages, using words carefully, using repetition, using appropriate timing, developing listening skills.
  - 4.4 Communication Channels in Organizations :
    - (i) Formal channels.
    - (ii) Vertical channels.
    - (iii) Horizontal channels.
    - (iv) Informal channels.
  - 4.5 Communication technology :
    - (i) Management information system (MIS).
    - (ii) Telecommunication.
    - (iii) E-mail and related technology.
- 5. Motivation** **Periods 10**
- 5.1 Meaning of Motivation—Nature, Definition and Characteristics.
  - 5.2 Classification of motives :
    - (i) Primary.
    - (ii) Motives.
    - (iii) General motives—curiosity, manipulation, affection, activity.
    - (iv) Secondary motives—power motive, achievement motive, affiliation motive, security motive, status motive.

**T.Y.B.A. / 148**

- 5.3 Theories of motivation :
  - (i) Maslow's need hierarchy.
  - (ii) Herzberg's two factor theory.
- 5.4 Mc Gregor's theory 'X' and 'Y,' theory 'Z'.
- 5.5 Motivation strategies :
  - (i) Motivation through job design.
  - (ii) Entrepreneurial incentives.
  - (iii) Training and education.
  - (iv) Motivation through incentives.
  - (v) Motivation through empowerment.

**6. Leadership and Leadership Styles                      Periods 12**

- 6.1 Nature and Definition of leadership.
- 6.2 Theories of leadership :
  - (i) Behavioural theories—IOWA, Ohio State, Michigan studies.
  - (ii) Trait theories.
  - (iii) Contingency theories—Fiedler's theory. Path-goal theory.
- 6.3 Situational theories—Hersey and Blanchard's theory.  
Modern theories—Charismatic leadership theory, transformation leadership theory, social learning theory.
- 6.4 The roles and activities of leadership—Leader-Manager roles, activities of successful leader.
- 6.5 Leadership skills.

**7. Conflicts and Conflict Management                      Periods 12**

- 7.1 Nature and definition of conflicts.
- 7.2 Types of conflicts : Intraindividual, interpersonal, intergrass organizational conflicts.
- 7.3 Strategies for dealing with conflicts : win-win strategy loose, loose strategy, win loose assertiveness, negotiation skills.

**T.Y.B.A. / 149**

- 7.4 Key elements of conflict resolution : Attitude adjustment, effective leader, A formal conflict resolution plan, the peer review option.

**8. Stress and Stress Management                      Periods 10**

- 8.1 Meaning of Stress : Nature and Definition.
- 8.2 Causes of Stress :  
Extra Organizational Stressors.  
Organizational Stressors.  
Group Stressors.  
Individual Stressors.
- 8.3 Effects of Stress :  
Physical Problems due to Stress.  
Psychological Problems due to Stress.  
Behavioural Problems due to Stress.
- 8.4 Coping strategies for Stress :  
Individual Coping Strategies.  
Organizational Coping Strategies.

**9. Team Building    Periods 12**

- 9.1 The nature of teams.
- 9.2 Basic beliefs about team work—Mc Gregor's influence, the leadership grid, Hall's contributions, behavioural science principles supporting team building.
- 9.3 Team Work : The employee's role, employee empowerment, employee as a leader, becoming a valued team member.
- 9.4 Team-building guidelines for leaders—consideration, structure, improving consideration skills, recognize accomplishments etc.
- 9.5 Improving structure skills—defining goals clearly, encouraging individual goal setting, providing relevant feedback often, dealing with poor performance immediately, structure vs control.

**10. The Changing Roles of Men and Women Periods 10**

- 10.1 Traditional roles are changing.
- 10.2 Problems facing women in organization.
- 10.3 Problems facing men in organization.
- 10.4 Challenges and opportunities for working men and women.
- 10.5 How to cope with gender biased behaviour?

*Books*

1. Reece and Brandt (1997) : Effective human relation in organizations (6th ed.) U.S.A. Houghton Mifflin Co.
2. Luthans, F. (1998) : Organizational Behaviour (9th ed.). Boston, Irwin Mc Graw Hill.
3. Ghosh & Ghorpade (1991) : Industrial & Organizational Psychology, Mumbai, Himalaya Publishing House.
4. Mohanaty, G. (1988) : Text book of Industrial & Organizational Psychology Delhi, Oxford and IBH Publishing Co.
5. Robins, Stephen, P. (1998) : Organizational Behaviour, New Delhi, (9th ed.) Prentice Hall of India.

*References*

1. Bhagwatwar, (p. 991) Psychology of Industrial and Organizational Behaviour, Mumbai, Sheth Publishers.
2. Pandit, Kulkarni, Gore (1997).  
मानसशास्त्र - औद्योगिक आणि व्यावसायिक उपयोजन, नागपूर,  
पिंपळापुरे व कंपनी.
3. Pandit, Pandharipande (1980).  
कर्मचारी आणि औद्योगिक मानसशास्त्र, नागपूर, सुविचार प्रकाशन.

**T.Y.B.A. / 151**

**OR**

**Industrial Psychology (General)**

*First six topics first-end examination.*

1. What Industrial Psychology is and is not-Definition-Nature of Industrial Psychology. Objectives of Industrial Psychology-subfields and scope of Industrial Psychology. Basic concept of Industrial psychology.

2. Occupational Information-Job description-Job analysis methods and psychological techniques of job analysis, job evaluation-steps in job evaluation, methods of job evaluation.

3. Performance Appraisal. Criteria of performance appraisal, technique of performance appraisal.

4. Personnel Selection-Techniques, Application, Blanks and interview-psychological testing in industry-usefulness of psychological tests-classification of psychological tests.

5. Time and Motion Study and Human Engineering Objectives of time and motion study-objections of time and motion study-Motion studies its principles-time study-Fatigue consequences of fatigue work curves-Reduction of fatigue boredom and monotony. Environmental conditions of fatigue Human Engineering.

6. Training in Industry-introduction-steps in learning, Training methods-basic Psychological Principles concerning training-Supervisory and management development training methods-Developing a training programme.

7. Industrial Accidents and their prevention-Types of accidents, concept of accident proneness-Causes of accidents prevention.

8. Motivation and Incentives-Nature and fundamentals of motivation, Maslow's Theory of need. Hierarchy Motivation and frustration. Work and incentives-Wage and other incentives.

## **T.Y.B.A. / 152**

9. Attitudes and job satisfaction, Methods of finding attitude-job satisfaction, Factors relation to job satisfaction increasing job satisfaction.

10. Morale-Definitions-Some factors affecting moral Attempts to improve morale, Industrial conselling-Types of conunselling-conditions leading to counselling needs.

11. Psychological Aspects of labour relations-Unions and its Labour - Management conflict. Union-Management relations, membership, Group dynamics, informal groups and organization, communications-its types.

12. Supervision and Leadership-Role and functions of Supervisor-Leadership and leadership styles-relative effectiveness of leadership styles-Employee Participation. Group decision and communication.

### *Text Books*

- (1) Psychology of Industrial Behaviour-Dr. P. A. Bhagwatwar (Sheth Publishers, Bombay).
- (2) Industrial Psychology-Harrel (BH, Oxford).
- (3) Industrial Psychology-Ghosh, Chorpade (Himalaya Publishing, Pune).
- (4) Industrial Psychology-Chaube (L. N. Agrawal).

### *Reference Books*

- (1) Industrial Psychology-Tiffin and McCormic (Prectice Hall of India).
- (2) Psychology in Industry-Maier (BH, Oxford).
- (3) Industrial Psychology-Blum Nylo (Harper and Row).
- (4) Personnel and Industrial Psychology-Ghiselli and Brown (McGraw Hill).
- (5) Industrial Psychology-Gilmer (McGraw Hill).
- (6) Text Book Industrial and Organizations Psychology by Girishbala Mohanty (Oxford, IBH).



**T.Y.B.A. / 153**

This course is alternative course of Applied Psychology course. This paper of Industrial Psychological shall be taught only by such teacher having basis Post-Graduate degree in Psychology. A study tour or trip to industrial or some industrial fare may be arranged for the students to understand the practical problems of industry. Students offering psychology at T.Y.B.A. level may visit any correctional homes, remand homes, psychological clinics by war tour.

**T.Y.B.A. / 154**

**Appendix**

**T. Y. B. A. Psychology**  
**Syllabus for**  
**Experimental Psychology and Research Methodology**  
**Spl. Paper S : 3**  
**(Revised from June 2000)**

*Objectives :*

1. To acquaint the students with the basic concepts of Experimental Psychology and Research Methodology.
2. To inculcate the research aptitude in the students.
3. To help the students to understand the basic stages in Research.
4. To enable the students to undertake an independent research project.

**Topic 1 : Scientific Research** **Periods 10**

- |     |   |   |
|-----|---|---|
| 1.1 | Nature of Scientific Research.  | 2 |
| 1.2 | Variables : Types, Constitutive and Operational definitions of variables. | 3 |
| 1.3 | Problem Formulation.  | 3 |
| 1.4 | Hypothesis Formulation.   | 2 |

**Topic 2 : Psychophysical Methods** **Periods 12**

- |     |   |   |
|-----|---|---|
| 2.1 | Basic concepts and Psychophysical Errors. | 2 |
| 2.2 | Method of Limits.                         | 2 |
| 2.3 | Methods of constant stimuli.              | 2 |
| 2.4 | Method of Average Error.                  | 2 |
| 2.5 | Weber's, Fechner's and Steven's Laws.     | 2 |
| 2.6 | Signal Detection.                         | 2 |

**T.Y.B.A. / 155**

**Topic 3 : Cognitive Psychology : History and Current Status.  
A Brief History of Cognitive Approach                      Periods 10**

- 3.1 The Origins of Cognitive Psychology. 2
- 3.2 The emergence of Contemporary Cognitive Psychology. 2

*The current Status of Cognitive Psychology*

- 3.3 Cognitive Science. 2
- 3.4 Neuroscience. 2
- 3.5 Artificial intelligence. 2

**Topic 4 : Perceptual Processes Pattern Recognition                      Periods 12**

- 4.1 Theories of pattern recognition, Template matching theory, Prototype models, Distinctive features model, Computational approach. 3
- 4.2 Top-down processing and pattern recognition. 3

*Attention*

- 4.3 Divided, selective and sustained attention. 2
- 4.4 Theories of Attention, Bottleneck theory, Automatic  $V^5$  controlled Processing, Feature-integration theory. Vigilance and signal detection theory. 2
- 4.5 Biological bases of Attention. 2

**Topic 5 : Conditioning                      Periods 12**

- 5.1 Types of Classical Conditioning. 2
- 5.2 Characteristics of Classical conditioning. 2
- 5.3 Generalization and Discrimination. 2
- 5.4 Instrumental and Operant Training. 2
- 5.5 Reinforcement : Schedules of reinforcement, Secondary reinforcement. 2
- 5.6 Effects of punishment and punishment as reinforcement. 2

**T.Y.B.A. / 156**

<b>Topic 6 : Problem solving and Creativity</b>	<b>Periods 12</b>
6.1 <i>Understanding the problem.</i>	3
6.1.1 Paying attention to important information.	
6.1.2 Methods of representing the problem.	
6.2 <i>Problem solving approaches.</i>	3
6.2.1 Means-Ends, Heuristic.	
6.2.2 Indepth : The analogy approach.	
6.3 <i>Factors influencing problem solving.</i>	3
6.3.1 Expertise.	
6.3.2 Mental Set and Functional Fixedness.	
6.3.3 Well-defined and ill-defined problems.	
6.3.4 Insight and noninsight problems.	
6.4 <i>Creativity.</i>	3
6.4.1 Measuring creativity.	
6.4.2 Factors influencing creativity.	

<b>Topic 7 : Language Comprehension and Production</b>	<b>Periods 12</b>
7.1 <i>Understanding Spoken Language.</i>	3
7.1.1 Speech preception.	
7.1.2 Constituent structure.	
7.1.3 Factors affecting comprehension.	
7.2 <i>Reading.</i>	3
7.2.1 Theories of word recognition.	
7.2.2 Reading comprehension.	
7.3 <i>Speaking.</i>	3
7.3.1 Selecting the content of speech.	
7.3.2 Speech errors and gestures.	
7.3.3 Social context of speech.	
7.4 <i>Writing.</i>	3
7.4.1 Comparing speaking and writing.	
7.4.2 Cognitive tasks involved in writing.	

**T.Y.B.A. / 157**

**Topic 8 : Sampling and Methods of Data Collection**

**Periods 12**

*Sampling*

- |     |                                    |   |
|-----|------------------------------------|---|
| 8.1 | Concepts of Universe and Sample.   | 1 |
| 8.2 | Types of probability sampling.     | 2 |
| 8.3 | Types of Non-Probability sampling. | 2 |

*Methods of Data Collection*

- |     |  |   |
|-----|--|---|
| 8.4 | Experimental : Laboratory Experiments and Field Experiments. | 2 |
| 8.5 | Questionnaire, Interview and Survey Method.                  | 2 |
| 8.6 | Observation.   | 1 |
| 8.7 | Psychological Tests.   | 1 |
| 8.8 | Case Study.  | 1 |

**Topic 9 : Research Designs**

**Periods 10**

- |     |  |   |
|-----|--|---|
| 9.1 | Meaning and purpose of Research Design.  | 2 |
| 9.2 | Criteria of Research Design.             | 2 |
| 9.3 | Basic principles of Experimental design. | 2 |
| 9.4 | Types of experimental Designs            |   |

3

- |     |  |  |
|-----|--|--|
| (a) | Between Groups Design                        |  |
|     | (i) Randomised Group Design.                 |  |
|     | (ii) Matched Design.                         |  |
|     | (iii) Factorial Design.                      |  |
| (b) | With Group Design : Complete and Incomplete. |  |

- |     |                            |   |
|-----|----------------------------|---|
| 9.5 | Quasi Experimental Design. | 1 |
|-----|----------------------------|---|

**Topic 10 : Writing a Research Report and A Research Proposal**

**Periods 10**

- |      |   |   |
|------|---|---|
| 10.1 | What is Research Proposal.                    |   |
| 10.2 | General purpose of writing a Research Report. | 2 |
| 10.3 | Structure or Format of a Research Report.     | 2 |
| 10.4 | Style of writing a Research Report.           | 3 |

**T.Y.B.A. / 158**

10.5 Typing, evaluating and preparing a Research Report. 3

*Books for Reading :*

1. Candland, Dougals K : Psychology : The experimental approach; McGraw Hill.  
(For Topics Nos. 2 and 5).
2. Kerlinger, F. N. : Foundations of behavioural research (1955) New York, Holt, Rinehart and Winston Inc. Surjit Publication.  
(For Topic Nos. 1 and 8).
3. Matling, Margaret W. : Cognition, 3rd Ed. 1995. Prism Books.  
(For Topic Nos. 3, 4, 6 and 7).
4. Singh, A. K. : Tests, Measurements and Research Methods in Behavioural Sciences, 2nd Edn, 1997. Bharati Bhavan, Patna.  
(For Topic Nos. 9 and 10).

*Books for Reference :*

1. Das, G. : Experimental Psychology, King Books, Delhi.
2. D'Amato, M. R. : Experimental Psychology : Methodology Psychophysics and Learning, McGraw Hill (1970).
3. Stenberg, Robert J. : Cognitive Psychology (1996) Harcourt, Brace College Publishers.

**T. Y. B. A. Psychology**  
**Special Paper S : 4**  
**Experimental Psychology and Statistics**  
**(Practicals)**  
**(Revised from June 2000)**

*Objectives :*

1. To acquaint the students with basic procedure and designs of the psychological experiments.
2. To enable the students to administer the psychological tests and interpret the results.
3. To help the students to undertake an independent minor research project.
4. To acquaint the students with the use of elementary statistical techniques.

**SECTION A**

**EXPERIMENTS AND TESTS OR PROJECT REPORT**

**GROUP I : PSYCHOPHYSICS** (Any three out of four) :

1. Methods of limits : Estimation of AL OR DL.
2. Method of Constant Stimuli : Estimation of DL and related psychological estimates.
3. Method of Average Error : PSE and other related psychological estimates.
4. Signal Detection.

**GROUP II : PERCEPTUAL PROCESSES**

(Any Three out of five) :

1. Retinal Colour Zones.
2. Colour Preference : Method of Paired Comparison.
3. Muller - Lyer Illusion.
4. Size Constancy OR Brightness Constancy.
5. Phi-Phenomenon.

**T.Y.B.A. / 160**

**GROUP III : LEARNING AND MEMORY**

(Any Three out of four) :

1. Serial learning OR Paired Associate Learning.
2. Perceptual Motor learning OR Maze learning.
3. Recall and Recognition.
4. Short-Term Memory (STM).

**GROUP IV : GENERAL EXPERIMENTS**

(Any Three out of four) :

1. Reaction Time : Comparison of Simple, Disjunctive and Choice R. T.
2. Bilateral Transfer by Mirror Tracing. Apparatus.
3. Problem Solving (Any two problems) :
  - (a) Luchin's Jar problem.
  - (b) Heart and Bow puzzle.
  - (c) Wiggly Blocks.
  - (d) Honai Tower (Pyramid).
4. Level of Aspiration.

**GROUP V : TESTING (Any Three out of five) :**

1. I.Q. TEST : Ravan's Progressive Matrices test. (PMT OR Advanced PMT).
2. Differential Aptitude test (DAT) (Any two Subscales).
3. Anxiety test OR introversion : Extroversion test (EPQ).
4. Achievement Motivation Test OT Adjustment Inventory.
5. Manual Dexterity OR Finger Dexterity.

*Pl. Note* : In lieu of Testing Practicals in group five a small empirical project based on testing can be undertaken. The project report should be included in the practical journal.

In addition to that, examiners should note that if the student have done the project, some questions should be asked on project report in viva-voce.



**T.Y.B.A. / 161**

**SECTION B : STATISTICS**

Students should get acquainted with and should be able to solve simple statistical problems on following topics :

- (a) Frequency Distribution.
- (b) Measures of Central tendency : Mean, Median and mode for ungrouped and grouped data.
- (c) Measures of variability : SD, Quartile Deviation (Q, Q1, Q3), and Range for ungrouped and grouped data.
- (d) Correlation : Product moment correlation (Raw Data Method) and rank difference correlation.

**Instructions to Teachers and Examiners :**

1. Before conducting the Exam. The External Examiners should confirm that while teaching and conducting the practicals, all the guidelines mentioned in the syllabus are strictly followed. This should include whether the requisite number of practicals were conducted from each group.
2. While appearing in the examination the student must produce the journal containing the reports of required number of practicals duly signed by the concerned teacher and the Head of the Department. Failing which, he should not be allowed to appear the examination.
3. This paper will consist of 100 marks and the division of marks should be as follows :
  - (a) Completion of Journal : 20 Marks
  - (b) Instructions of conduct of the experiment or Test : 20 Marks
  - (c) Report writing : 20 Marks
  - (d) Statistics : 20 Marks
  - (e) Viva-voce : 20 Marks

Total = 100 Marks

---

### **T.Y.B.A. / 162**

4. Practical examination will be of three clock hours duration. This will include the time for the solution of statistical problem.
5. A batch of 12 students maximum will constitute one batch. Each batch will conduct the practicals twice a week, three periods perday. In addition, there will be a separate period for statistics per week.
6. Practical examination will be held Annually.
7. Students should visit an industry, Mental Hospital, General Hospital, Central Jail, Ashram schools or such correctional institutes or organizations and they should prepare a report of the tour or visit.

*Books for Readings :*

### **SECTION A**

1. Experiments in Psychology—Girishbala Mohanty, 1966, Kalyani Publication, New Delhi.
2. Laboratory Manual in Experimental Psychology—Mann.
3. Experiments in Psychology—Parmeswaran.
4. Elementary Experiments in Psychology—Kuppuswamy.
5. Experiments in Psychology—Jalota.
6. Experiments in Psychology—Mohasin.
7. मानसशास्त्रीय प्रयोग – डॉ. सु. वा. देशपांडे (म.वि.ग्रं.नि. मंडळ)
8. Experimental Psychology—Postman Eagan.

**T.Y.B.A. / 163**

**SECTION B**

1. Statistics in Education and Psychology—Garret.
2. Measurement and Evaluation in Psychology and Education — Asthana Agrawal (Vinod Pustak Mandir, Agra 2).
3. सुबोध संख्याशास्त्र - ना. के. उपासनी.
4. मनोविज्ञान और शिक्षा में सांख्यिकी के मूलतत्त्व—वर्मा-श्रीवास्तव (विनोद पुस्तक मंदिर).
5. मनोविज्ञान एवं शैक्षिक सांख्यिकी के मूलतत्त्व—लाभसिंह भार्गव (हरप्रसाद भार्गव, आग्रा).
6. सांख्यिकी के मूलतत्त्व—कपिल (विनोद पुस्तक मंदिर, आग्रा).
7. Statistics in Education and Psychology — Fergusson (McGraw Hill).

**T.Y.B.A. / 164**

## **(18) Education**

*Objectives :*

1. To acquaint the student with the knowledge of psychological principles on which effective teaching procedure are based.
2. To help him to recognize the needs of children and their interests at different stages.
3. To help him to understand the importance of heredity and environment in education.
4. To acquaint the student with the nature and development of personality, the nature and areas of individual differences and their relevance to education.
5. To help him to understand the process of learning, the process of remembering and the factors that influence these processes.
6. To help him to understand the importance of primary and his mental processes.
7. To help him to understand the nature of intelligence and various types of intelligence tests.
8. To acquaint him with some of the psychological features which influence the mental health.

**Paper : Educational Psychology (G-3)**

*Section I*

**Unit 1 : Psychology and Education**

- (a) Psychology-A Science of Behaviour.
- (b) Scope of Psychology-General Psychology and various branches of Psychology.

**T.Y.B.A. / 165**

- (c) Educational Psychology-Nature and Scope.
- (d) Methods of Educational Psychology
  - (i) Introspection.
  - (ii) Observation.
  - (iii) Experimental.  
(nature and limitations of each).
- (e) Uses of Educational Psychology.

**Unit 2 : Heredity and Environment**

- (a) Heredity
  - (i) Meaning and Definition.
  - (ii) Biological Heredity.
  - (iii) Social Heredity.
- (b) Environment-Meaning and nature.
- (c) Educational significance of heredity and environment.

**Unit 3 : Stages of Development**

- (a) Stages of Development.
  - (i) Infancy,
  - (ii) Later childhood,
  - (iii) Adolescence.  
Their salient features and educational significance.
- (b) Physical, Intellectual, Emotional and Social  
  
Development of each stage.
- (c) Educational Implications.

**Unit 4 : Personality**

- (a) Concept of Personality
  - (i) Meaning of personality.
  - (ii) Characteristics of personality
    - (a) Dynamism, (b) Uniqueness,
    - (c) Self-consciousness, (d) Social.

**T.Y.B.A. / 166**

- (b) Development of Personality : Factors influencing development of personality.
- (c) Process of development of personality.

**Unit 5 : Individual Differences**

- (a) Areas of difference.
- (b) Significance of these areas in Education.
- (c) Schemes to meet the problems of individual differences.

*Section II*

**Unit 6 : Learning**

- (a) Meaning, Nature and Definition of Learning.
- (b) Process of Learning.
- (c) Methods of Learning
  - ( i ) Trial and Error.
  - ( ii ) Conditioning (Classical conditioning only).
  - (iii) Insight.(Meaning, importance and limitations of each).
- (d) Thorndike's Laws of Learning.
- (e) Factors affecting learning : Attention, Interest, Maturation, Motivation and Fatigue.

**Unit 7 : Memory**

- (a) Concept of Memory : Meaning and Definition.
- (b) Process of remembering :
  - ( i ) Registration, (ii) Retention,
  - (iii) Recall, (iv) Recognition.(Meaning and nature of these four stages).
- (c) Forgetting : (i) Concept and Definition.
  - (ii) Causes of forgetting.

**T.Y.B.A. / 167**

- (d) Improvement of Memory :
  - (i) Association of ideas.
  - (ii) Mnemonic Devices.
  - (iii) Use of proper learning methods.

**Unit 8 : Mental Process**

- (a) Primary Process :
  - (i) Sensation, (ii) Perception,
  - (iii) Concept formation.
- (b) Higher Process :
  - (i) Imagination, (ii) Thinking,
  - (iii) Problem-solving.

**Unit 9 : Intelligence**

- (a) Concept of Intelligence-Nature, Meaning and Definition.
- (b) Intelligence Tests :
  - (i) Need for measurement of intelligence.
  - (ii) Need for different types of tests.
  - (iii) Types of tests : Individual and group tests, Verbal and Non-verbal tests.  
(Merits and limitations of each type of test).
  - (iv) Uses of intelligence tests.

**Unit 10 : Mental Health**

- (a) Concept of Mental Health.
- (b) Mental conflicts : causes and types.
- (c) Defence mechanism.
- (d) Means to maintain mental health.

*Reference Books*

- (1) Crow and Crow : Educational Psychology, Eurasia Publishing House (Pvt.) Ltd., New Delhi.
- (2) Sorenson, H. : Psychology in Education, McGraw Hill Book Co. Inc., New York.
- (3) Bhatia, H. R. : Elements of Educational Psychology.

**T.Y.B.A. / 168**

- (4) Rastogi, K. G. : Educational Psychology, Rastogi Publications, Meerut.
- (5) गोगटे, श्री. ब.—शिक्षणातील मानसशास्त्र, श्री विद्या प्रकाशन, पुणे.
- (6) कुलकर्णी, के. वि.—शैक्षणिक मानसशास्त्र, श्री विद्या प्रकाशन, पुणे.
- (7) दांडेकर, वा. ना.—शैक्षणिक व प्रायोगिक मानसशास्त्र, मोघे प्रकाशन, पुणे आणि कोल्हापूर.
- (8) आपटे व बापट—शिक्षणाचे मानसशास्त्रीय अधिष्ठान, श्री विद्या प्रकाशन, पुणे.
- (9) आलेगावकर, प. म.—क्रीडामानसशास्त्र, श्री गजानन बुक डेपो, कबुतरखाना, दादर, मुंबई-२८.



T.Y.B.A. / 169

**(19) History**

**Appendix to T.Y.B.A.  
History-Reference Book**

पुणे विद्यापीठ

परिपत्रक क्र. १२७/१९९९

विषय : टी.वाय.बी.ए. इतिहास विषयासाठी संदर्भ ग्रंथ.

विद्यापीठ अधिकार मंडळाच्या निर्णयानुसार सर्व संबंधितांना कळविण्यात येते की, टी.वाय.बी.ए. इतिहास विषयासाठी खालील संदर्भ ग्रंथ म्हणून मान्यता देण्यात आलेली आहे :

पुस्तकाचे नाव	लेखक	वर्ग
मराठ्यांचा इतिहास	प्रा. सुहास राजदेरकर	टी.वाय.बी.ए. जन. ३

गणेशखिंड, पुणे-४११००७

जा. क्र सीबीएच/४०१

दिनांक : ५-४-१९९९

ना. म. कदम

कुलसचिवांकरिता.

**T.Y.B.A. / 170**

**General Paper III-History of Marathas (1630-1818)**

**Special Paper III-Modern Europe 1848-1945**

**OR**

**American-History 1861-1962**

**Special Paper IV-Modern Asia 20th Century**

**OR**

**Russian History 1861-1962**

**GENERAL PAPER-III**

**HISTORY OF THE MARATHAS (1630-1818)**

(To be taught in broad outline) Periods required

1. Rise of the Maratha power-Political and Socio religious background.
2. Shivaji's Relations with the Adilshahi Kingdom :
  - 2.1 Javali Incident. 2
  - 2.2 Afzalkhan Episode. 2
  - 2.3 Siddi Jauhar's Expedition to Panhala. 1
3. Shivaji's Relations with the Mughals :
  - 3.1 Invasion of Shaista Khan. 2
  - 3.2 Sack of Surat. 1
  - 3.3 Expedition of Mirza Raja Jaisingh and the treaty of Purandar. 2
  - 3.4 Visit to Agra and escape. 2
  - 3.5 Struggle with the Mughals (1670-73). 2
4. Shivaji's Coronation :
  - 4.1 First Coronation causes and significance. 2
  - 4.2 Second coronation.
5. Karnatak Expedition, objectives and achievements. 3

## T.Y.B.A. / 171

6.	Relations with foreign powers :	
6.1	The Siddis.	2
6.2	The Portuguese.	2
6.3	The English.	2
7.	Shivaji's Administrative System an outline :	
7.1	Civil Administration.	2
7.2	Military Organization.	2
8.	Sambhaji-his career and achievements.	3
9.	Maratha War of Independence-a brief survey :	
9.1	Rajaram.	1
9.2	Role of Ramchandrapant Amatya, Tarabai, Santaji Ghorpade and Dhanaji Jadhav.	4
10.	Release of Shahu Ascension to power.	2
11.	Balaji Vishwanath-Role of consolidating the Maratha Power.	2
12.	Bajirao I :	
12.1	His policy of expansion Maratha.	4
12.2	Expansion in the North and South.	
12.3	Relations with the Dabhades.	1
12.4	Relations with the Portugees.	1
12.5	Achievements.	2
13.	Balaji Bajirao :	
13.1	Maratha activities in the North & South.	3
13.2	Relations with the Angres, Raghuji Bhosale and the Kolhapur State.	3
13.3	Third Battle of Panipat, 1761 :	
(a)	Circumstances leading to the battle.	4
(b)	Defeat of the Marathas.	
(c)	Consequences.	
14.	Madhavarao I :	
14.1	Domestic problems.	1
14.2	Revival of Maratha power in the North.	2

**T.Y.B.A. / 172**

14.3	Karnatak expeditions.	2
14.4	Evaluation of achievements.	2
15.	(a) Barbhai council.	2
	(b) Nana Fadnavis and Mahadji Shinde.	3
16.	Peshwa-Nizam Relations.	4
17.	Bajirao II and the downfall of the Maratha power.	3

*Books for Study*

1. Sarkar N. N.-Shivaji and his Times.
2. Sardesai, G. S.-New History of the Marathas, Vols. I, II, III.
3. Pagdi Setu Madhavrao-Chhatrapathi Shivaji Maharaj.
4. काळे, वि. वि.—छत्रपती शिवाजी महाराज.
5. कुलकर्णी, अ. रा. व खरे, ग. ह. (संपा.)—मराठ्यांचा इतिहास.

*Books for Reference*

1. Ranade M. G.-Rise of the Maratha Power.
2. Sen S. N.-Administrative System of the Marathas.
3. Sen S. N.-Military System of the Marathas.
4. Nadkarni R. V.-Rise and Fall of the Maratha Empire.
5. Sarkar J. N.-House of Shivaji.
6. बेंद्रे, वा. सी. - शिवाजी महाराजांचे विधिचिकित्सक चरित्र.
7. रामचंद्र पंत अमात्य - आज्ञापत्र.
8. शेजवलकर - पानिपत, १७६१.
9. शेजवलकर - मराठे-निजाम संबंध.
10. सौ. कमल गोखले - शिवपुत्र संभाजी.
11. शिवचरित्र कार्यालय - शिवाजी निबंधावली, भाग १ व २, शिवचरित्र निबंधावली, भाग १.
12. शालिनीताई पाटील - महाराणी ताराबाई.

**T.Y.B.A. / 173**

**History Special Paper III**

**Modern Europe (1948-1945)**

	Periods required
1. Napoleon III	
1.1 His foreign policy.	2
1.2 Domestic policy.	2
2. Emergence and development of nationalism	
2.1 Italy.	3
2.2 Germany.	3
3. The Eastern Question disintegration of the Turkish Empire	
3.1 The Crimean War (1854-56).	2
3.2 Berlin Congress, 1878.	2
3.3 Young Turk Revolution, 1908.	2
3.4 Balkan Wars 1912-13.	2
4. Socialist thought and movement in Europe with special reference to	
4.1 St. Siman.	1
4.2 Robert Own.	1
4.3 Charles Fourier.	1
4.4 Proudhon.	1
4.5 Karl Marx.	2
5. The Third Republic in France—Its achievements.	3
6. Bismarck	
6.1 His foreign policy.	3
6.2 Domestic policy.	2
7. New Imperialism—Partition of Africa.	3
8. Kaiser William II—his foreign policy.	3
9. Formation of Triple Entente and division of Europe into two Armed Campus.	2

**T.Y.B.A. / 174**

10.	World War-I	
	10.1 Causes and effects.	3
	10.2 Peace Settlements of 1919.	4
11.	The Russian Revolution of 1917	
	11.1 Events leading to the Revolution.	2
	11.2 Lenin-(a) His role in the Revolution (b) New Economic policy. (c) His foreign Policy.	
	11.3 Stalin-(a) His Five-Year Plans. (b) His foreign Policy.	4
12.	The League of Nations.	
	12.1 Its aims and organization.	1
	12.2 Achievements and failure.	3
13.	Inter-war Dictatorship	
	13.1 Italy.	5
	13.2 Germany.	7
14.	Policy of Appeasement.	3
15.	World War II–Causes.	3

*Books for Study*

1. Hazon–Europe since 1815.
2. Lipson–Europe in the 19th and 20th Centuries.
3. Grant and Temperley–Europe in the 19th and 20th Centuries.
4. Sir Marriot J.A.R.–A History of Europe (1815-1970).
5. Peacock H. K.–History of Modern Europe (1789-1970).
6. Kulkarni & Phadke–Adhunik Europe.
7. Athawale Sadashiv–Arwachin Europe.

**T.Y.B.A. / 175**

*Books for Reference*

1. Moon H.P.T.—Imperialism and World politics.
2. Cambridge Modern History (Relevant Volumes).
3. Taylor A.J.P.—The Struggle for Mastery in Europe.
4. Hayes—Contemporary Europe since 1870.
5. Seaman from Vienna to Versailles.
6. Hardy Gathorn—A short History of Internal Affairs (1920-30).
7. Carr E. H.—International Relations between the two World Wars.

**OR**

**Special Paper III**

**American History (1861-1962)**

1. Civil War—Causes, consequences and reconstruction plants.
2. Industrialisation—Rise and growth of big business.
3. The populist movement the growth of labour movement.
4. Theodore Roosevelt—Domestic achievements, foreign policy—the Spanish American War—causes, consequences of the war.
5. President Woodrow Wilson progress viz. New Freedom and his foreign policy.
6. Great Depression and the New Deal.
7. F.D. Roosevelt and his foreign policy.
8. America and the cold war.
9. Eisenhower and his foreign policy.
10. J. F. Kennedy—Domestic achievement and his foreign policy.
11. Civil Rights Movement.

**T.Y.B.A. / 176**

*Books for Study*

1. Wade Richer, Wilder Howard and Wade Louise—A History of the United States, Boston, 1966.
2. Faulkner, H. U. and Kepner, T.—America : Its History and People, New York, 1950.
3. Current, Williams and Freidel—American History : A Survey, New York, 1965.
4. गोरे, ना. ग.—अमेरिकेच्या संघराज्याचा इतिहास, पुणे, १९६०.
5. देवपुजारी व भंवरे—अमेरिकेचा इतिहास (म.वि.ग्रं.नि.मं.) १९७५.

*Books for Reference*

1. Current, Williams and Friedel—A History of the United States. (2 Vols.)
2. Hofstadter, Miller and Aron—The United States.
3. Faulkner, H. U.—American Political and Social history.
4. Commager—Oxford History of U.S.A.
5. Schlessinger—The Rise of Modern America.
6. Morison Commager and Leuchtenburg—The Republic of U.S.A. (2 Vols.)

**Special Paper IV**

**Modern Asia (20th Century)**

Periods required

**China**

1. Rise and development/of European Imperialism in China/ Japan upto the end of the 19th Century a brief survey.
2. The Revolution of 1911
  - 2.1 Causes.
  - 2.2 Significance. 2
3. China and World War I
  - 3.1 The Twenty-one demands. 1
  - 3.2 The Mayfourth Movement. 1



## T.Y.B.A. / 177

4. Dr. Sun Yat Sen
  - 4.1 Main ideas of his Political Philosophy. 1
  - 4.2 Role in the History of China. 2
5. Kuomintang-Communist Relations—Three Phases
  - 5.1 1921-1936 Confrontation leading to Long March. 2
  - 5.2 1937, 1949 Co-operation and Confrontation. 2
6. Communist Revolution in China-Causes. 4
7. Communist China
  - 7.1 Relations with India. 2
  - 7.2 Relations with Soviet Russia. 1

### Japan

8. Japanese Imperialism
  - 8.1 Anglo-Japanese Tready, 1902. 1
  - 8.2 Russo-Japanese War, 1904-05. 2
  - 8.3 Japan and World War. 2
  - 8.4 Paris Peace Conference, 1919. 1
  - 8.5 Washington Conference. 2
9. Rise of Militarism. 2
10. Rise of Zaibatsu industrialisation and economic progress, 1918-1939. 2
11. The Manchurian Crisis of 1931 and the role of the League of Nations. 2
12. Japan and World War-II.
13. American Occupation—Reorganization and reconstruction of Japan under General Mac Arthur. 3

### West Asia

15. The Ottoman Turkish Empire.
  - 15.1 Policies of Sultan Abdul Hamid II. 3
  - 15.2 Young Turk Revolution. 3
  - 15.3 Balkan Wars (1912-13). 2
  - 15.4 Impact of World War I on the Turkish Empire. 2
  - 15.5 Rise of Mustafa Kemal—Modernization of Turkey.3

**T.Y.B.A. / 178**

16. Development of Arab Nationalism.
- 16.1 Arab and World War I. 2
- 16.2 (a) Emergence of National Movement in Egypt between two world Wars Role of Zagblal Pasha and Waft party. 4
- (b) Revolution of 1952.
- (c) Role of Nasser.
- 16.3 Iraq under British Mandate—Nationalist Movement in Iraq (1920-1958). 2
- 16.4 Rise of Saudi Arabia, role of Ibn Saud. 2
17. Arab-Israel Relations
- 17.1 Zionist Movement and the development of the idea of Israel. 3
- 17.2 The Arab-Israel conflicts. 5
- 18. Iran**
- 18.1 Rise of Raza Shah Pehla and the Modernization of Iran. 3
- 18.2 Rise and Fall of Dr. Mossadiq. 2
19. West Asia and the Great Powers.

*Books for Study (First Term)*

1. Backman S. M.—Modernization of China and Japan.
2. Clyde and beers—The Far East (1830-1965).
3. Storry Richard—A History of Modern Japan.
4. Ahmad L.L.—A. Comprehensive History of the Far East.
5. शं. गुप्ते—पूर्व आशियाचा आधुनिक इतिहास.
6. डॉ. विघ्नलंकार—सत्यकेतू-एशिया का आधुनिक इतिहास, सरस्वती प्रकाशन, मसुरी.

**T.Y.B.A. / 179**

*Books for Reference*

1. Bass Claud A.—Asia in the Modern World.
2. Marius B. Jansen—Japan and China from War to Peace, 1894-1972.
3. Panikkar K. M.—Asia and Western Dominance.
4. Vinacke H. M.—History of the Far East in Modern Times.

*Books for Study (Second Term)*

1. Kirk—A Short History of the Middle East.
2. Fisher S. N.—The Middle East-A History.
3. Yale William—Near West.
4. Polk William and Chambers R. L.—Beginnings of Modernization in the Middle East.
5. Lewis G. L.—Turkey.

*Books for Reference*

1. Lenezowsky George—The Middle East.
2. Sharabi H. B.—Government and Politics of the Middle East in the 20th Century.
3. Chatterjee N. C.—History of Modern Middle East.

**OR**

**Special Paper IV**

**Russian History (1861-1964)**

1. A brief of important events in the Russian history from the Vienna Congress, domestic and foreign policies of Alexander I and Nicholas I.

**T.Y.B.A. / 180**

2. Alexander II domestic policy—Emancipation of the serfs—effort for their settlement, effect of the reforms.
3. Alexander III counter reform measures—Russia's interests in the far East—Russo-Japanese War.
4. Events leading to the Revolution of 1905 October, Government-Duma-failure of Duma.
5. Russia and First World War-I consequences.
6. Russian Revolution of 1917 Mensheviks-Bolsheviks-Lenin—Effects of the Revolution.

*Second Term*

7. Lenin-War communism-New Economic Policy.
8. Stalin-Struggle with Totsky-his five-year plans constitution of 1935.
9. Soviet Russia's relations with European countries upto 1939.
10. Soviet Russia and the Second World War.
11. Soviet Russia and the Cold War—the Khrushchev Era, liberal domestic policy.

*Books*

1. Wern, M.C.—The course of Russia History.
2. Nicholas, L. Fr. Chirovsky—An introduction to Russian History.
3. Florinsky, M. R.—Russia-History and an interpretation, Vols. I and II.
4. Institute of History, Moscow-A short history of the U.S.S.R. Vols. I and II.
5. Carr, E. H.—Soviet Impact on the World.
6. Menon, K. P. S.—The Lamp and Lamp-Stand.
7. Rauch-A History of Soviet Russia.
8. सोव्हिएट क्रांतीची ५० वर्षे.
9. पं. नेहरू—आजचा रशिया.
10. Laski, H. J.—Reflections on the Revolutions of Our Times.

**T.Y.B.A. / 181**

**(20) Music**

*Theory* : Paper will be of 60 marks and 2 hours duration for the annual examination.

The nature of the question paper will be as under :

- (1) Total 4 questions carrying 15 marks each.
- (2) Two long answers.
- (3) One short notes (2 out of 3) marks 7½ each.
- (4) One short answers (3 out of 4) marks 5 each.

*Practical* : There will be a practical examination that will coincide with annual examination and will be of 40 marks.

(Passing in both theory and practical examination is compulsory).

*Note* : The students will not be permitted to learn 'Music' as a private candidate.

**T.Y.B.A. / 182**

**VOCAL AND INSTRUMENTAL CLASSICAL MUSIC**

*G-5 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Notation-Writing of :
  - (i) Chhota-Khyal (छोटा ख्याल) or One Rajakhani Gata (रजखानी गत) from the following Ragas :
    - (1) पूर्वी, (2) पूरिया धनाश्री, (3) मुलतानी and
    - (4) खमाज
  - (ii) The following Talas (ताल)
    - (१) धमार, (२) दीपचंदी, (३) पंजाबी, (४) धुमाळी,
    - (५) अद्धा, (६) कवाली ठेका.
2. General knowledge of the following topics :
  - (१) पूर्वी, (२) धमार, (३) प्रबंध, (४) होरी, (५) गझल, (६) टप्पा.
3. Detailed theoretical description of the following Ragas :
  - (१) पूर्वी, (२) पूरिया धनाश्री, (३) मुलतानी, and (४) खमाज.
4. Short accounts of the contribution of the following artists to Music :
  - (१) स्वामी हरिदास
  - (२) खाँसाहेब फैय्याजखॉ
  - (३) कै. पं. रामकृष्णबुवा वझे
  - (४) खाँसाहेब अब्दुल करीम खॉ
  - (५) श्रीमती केसरबाई केरकर
  - (६) श्रीमती मोघूबाई कुर्डीकर

**T.Y.B.A. / 183**

**T.Y.B.A. Music 3**

**Practical (40 marks)**

**1. Study of :**

- (i) One Bada-Khyal (बडा ख्याल) or Maseetkhani-Gata (मसीतखानी गत) from the following Ragas :  
(१) पूर्वी, (२) पूरिया धनाश्री, (३) मुलतानी and (४) खमाज
  - (ii) One Chhota Khyal (छोटा ख्याल) or Rajakhani-Gata in each of the above mentioned Ragas.
  - (iii) Two Taranas from the Ragas prescribed for Semesters First and Second of G.1, G.2 and G.3.
  - (iv) One Dhrupad (धृपद) one Dhamar (धमार) from the above mentioned Ragas.
2. Ability to recite the Theka-bole (टेका बोल) of the following Talas (ताल) while Tabla is being played :  
(१) धमार, (२) पंजाबी, (३) दीपचंदी, (४) धुमाळी, (५) अन्दा, (६) कवाली टेका.
3. Ability to recognize the Ragas from the Swar-Samoohas (स्वरसमूह) sung (or played) by the examiner.

*S 5. Semester V*

**Theory**

(Time 2 hours : 60 Marks)

**1. Notation Writing of :**

- (a) Bada-Khyal (बडा ख्याल) or Dhrupad (धृपद) or Maseetkhani-Gata (मसीतखानी गत) from the following Ragas :  
(१) दरबारी कानडा, (२) तोडी, (३) मारवा, and (४) मारुबिहाग
- (b) The Talas studied upto now.

**T.Y.B.A. / 184**

2. Detailed theoretical description of the Ragas mentioned above.
3. Knowledge of :
  - (१) जाती-गायन, (२) वैदिक संगीत, (३) हार्मनी मेलडी,
  - (४) स्वयंभू स्वर, (५) अध्वजर्दक स्वर.
4. Short accounts of the contribution of the following artists:
  - (१) कुमार गंधर्व , (२) छोटा गंधर्व, (३) कै. जगन्नाथबुवा पुरोहित,
  - (४) श्रीमती प्रभा अत्रे, (५) श्रीधर पार्सेकर, (६) श्रीमती लक्ष्मी शंकर, (७) श्रीमती निर्मला अरुण.

**Practical**

(40 marks)

**1. Detailed Study of :**

- (i) Any three Bada-Khyal (बडा ख्याल) or Massitkhani Gata (मसीतखानी गत) from the following Ragas :
  - (१) दरबारी कानडा, (२) तोडी, (३) मारवा, and
  - (४) मारुबिहाग.
- (ii) Chhota Khyals (छोटा ख्याल) or Rajakhani-Gata (रजाखानी गत) in each of the above mentioned Ragas.

**2. Ability to :**

- (i) Recognize and reproduce Shuddha-Vikrit Swaras (शुद्ध-विकृत स्वर), Talas (ताल) Ragas (राग) or songs heard on the spot.
- (ii) Sing one Thumri (ठुमरी) in any Raga (राग) of Thumri (ठुमरी) and two Dhrupads (धृपद) with Dugan (दुगन) in the above mentioned Ragas.
- (iii) Explain the similarities and differences between the Ragas studied uptill now.



**T.Y.B.A. / 185**

*S-6 Semester V*

**Theory**

(Time 2 hours : 60 marks)

**1. Notation Writing of :**

- (a) Any type of Khyal (ख्याल) or Gata (गत) from the following Ragas:  
(१) ललत, (२) गौडमल्हार, (३) अहीरभैरव and  
(४) शामकल्याण.
  - (b) Rag-Swar-Samoohas showing 'Aaveerbhav'  
(आविर्भाव) and 'Teerobhava' (तीरोभाव) in the above mentioned Ragas.
2. Detailed theoretical discription of the Ragas mentioned above.
  3. General knowledge of :  
(१) टेपरेकॉर्डिंग, (२) संगीत परिषदांचे आयोजन, (३) संगीतासाठी ग्रंथालये, (४) संगीत स्पर्धांचे आयोजन.
  4. Short accounts of the contribution of the following artists:  
(१) मल्लिकार्जुन मन्सूर, (२) भीमसेन जोशी, (३) ए. कानन्,  
(४) आशा भोसले, (५) कृष्णराव शंकर पंडित.

**Practical**

(40 marks)

**1. Detailed study of :**

- (i) Bada Khyal (बडा ख्याल) or Maseetkhani Gata (मसीतखानी गत) from the following Ragas :  
(१) ललत, (२) गौडमल्हार, (३) अहीरभैरव, and  
(४) शामकल्याण.

**T.Y.B.A. / 186**

- (ii) Chhota Khyal (छोटा ख्याल) or Rajakhani Gata (रजाखानी गत) in the above mentioned Ragas.

**2. Ability to :**

- (i) Recognize the Ragas and Talas heard on the spot.  
(ii) Sing two Thumries (ठुमरी) with proper Gayaki (गायकी).  
(iii) Explain the similarities and differences between Ragas studied uptill now.

*G-6 Semester VI*

**Theory**

(Time 2 hours : 60 marks)

**1. Notation Writing of :**

- (i) One Bada-Khyal (बडा ख्याल) or Maseetkhani Gata (मसीतखानी गत) from the following Ragas :  
(१) रागेश्री, (२) छायानट, (३) जयजयवंती, and (४) बसंत.  
(ii) The talas prescribed for semester first of G3.

**2. General knowledge of :**

- (१) निबद्ध, अनिबद्ध गान, (२) अलिप्त गान, (३) गिडकिडी,  
(४) संधिप्रकाश राग, (५) थाट पद्धती, (६) रागांग पद्धती,  
(७) साहाय्यक नाद, (८) परमेल-प्रवेशक-राग.

**3. Definitions of the following technical terms :**

- (१) आविर्भाव, (२) तीरोभाव, (३) विलोभ, (४) अनुलोभ, (५) छूट,  
(६) चिकारा, (७) सूतमिंड, (८) ततकार, (९) सुर्की, (१०) क्रिंतन.

**T.Y.B.A. / 187**

4. Topics for essays :

- (१) अशी आमची जुगलबंदी
- (२) संगीताच्या मैफलीची शिस्त व आनंद.
- (३) संगीत व संशोधन.
- (४) शास्त्रीय संगीत लोकप्रिय कसे करता येईल?

**Practical**

(40 marks)

1. Study of :

- (i) One Bada-Khyal (बडा ख्याल) or Maseetkhani-Gata (मसीतखानी गत) from the following Ragas :  
(१) रागेश्री, (२) छायानट, (३) जयजयवंती, (४) बसंत.
  - (ii) One Chhota Khyal (छोटा ख्याल) or Rajakhani Gata (रजाखानी गत) in each of the above mentioned Ragas.
  - (iii) One Thumari (ठुमरी) from the following Ragas :  
(१) खमाज, (२) काफी, (३) भैरवी, (४) पिलू.
2. Ability to explain similarities and differences between the Samaprakruti Ragas (समप्रकृति राग) studied upto now (from G 1 to G 3).
  3. Ability in stage-performance (सभा-गायन) for at least 30 minutes.

*S-7. Semester VI*

**Theory**

(Time 2 hours : 60 marks)

1. Notation-Writing of :

- (a) Bada-Khyal (बडा ख्याल) or Maseetkhani-Gata (मसीतखानी गत) from the following Ragas :  
(१) गौड सारंग, (२) पूर्वी, (३) परज, (४) चंद्रकंस.
- (b) 'Swaravistar' (स्वरविस्तार) of the above mentioned Ragas.

**T.Y.B.A. / 188**

2. General knowledge of the following topics :
  - (१) प्राचीन ग्रंथ-संगीत रत्नाकर (शाङ्गद), नाट्यशास्त्र (भरत).
  - (२) संगीतविषयक कार्यक्रम सादर करताना लक्षात घ्यावयाच्या गोष्टी.
3. Topics of essay :
  - (१) कंठ-साधना.
  - (२) संगीताचा अन्योन्यशास्त्रांशी संबंध (उदा., सांगीतिक मानसशास्त्र, भौतिकी, संख्याशास्त्र, समाजशास्त्र).
4. Similarities and differences between the Ragas studied uptill now.

**Practical**

(40 Marks)

**1. Detailed study of :**

- (i) Any the Bada-Khyal (बडा ख्याल) or Maseetkhani-Gata (मसीतखनी गत) from the following Ragas :
  - (१) गौडसारंग, (२) पूर्वी, (३) परज, and ४) चंद्रकंस.
- (ii) Chhota-Khyals (छोटा ख्याल) or Rajakhani Gata (रजाखानी गत) in above mentioned Ragas.

**2. Ability to :**

- (i) Recognize and reproduce shuddha-Vikriti-Swaras (शुद्ध-विकृत-स्वर), Talas (ताल), Ragas (राग) or songs heard on the spot.
- (ii) Sing one Dhamar (धमार) with Dugun (दुगुन) and two Taranas (तराने) in the prescribed Ragas.

**T.Y.B.A. / 189**

**Theory**

(Time 2 hours : 60 marks)

**1. Notation Writing of**

- (a) Rag-Vistar (राग विस्तार) of the following Ragas :  
(१) देशी, (२) पुरिया कल्याण, (३) शुद्धसारंग, and  
(४) नंद.
- (b) The Talas studied upto now with Dugun (दुगुन) and  
Chougun (चौगुन).
2. Knowledge of finding out the names of the Ragas, where  
any swar (स्वर) of a particular Rag (राग) is supposed to  
be षड्ज.
3. Topics of essays :  
(१) सध्याच्या संगीत शिक्षणातील समस्या  
(२) संगीत मैफलीचे तंत्र  
(३) संगीत आणि आधुनिक वैज्ञानिक उपकरणे  
(४) संगीतात काव्याचे स्थान  
(५) संगीतकला आणि रसास्वाद
4. Similarities and differences between the Ragas studied  
upto now.

**Practical**

(40 marks)

**1. Detailed study of :**

- (i) Bada Khyal (बडा ख्याल) or Maseetkhani-Gata  
(मसीतखानी गत) from the following Ragas :  
(१) देशी, (२) पूरिया कल्याण, (३) शुद्ध सारंग, and (४)  
नंद.
- (ii) Chhota Khyal (छोटा ख्याल) or Rajakhani Gata (रजाखानी  
गत) in each of above mentioned Ragas.

**T.Y.B.A. / 190**

2. Ability to :
- Recognize the Ragas/Talas heard on the spot.
  - Sing two Dhrupads (धृपद) and one Dhamar (धमार) with Chougun (चौगुन) and two Taranas (तराने) in the above mentioned Ragas.
  - Explain the similarities and differences between the (समप्रकृति) Samaprakriti Ragas studied upto now.

**TABLA**

*G-5 Semester V*

**Theory**

(Time 2 hours : 60 marks)

- Notation writing of :
  - The Theka-Bols (ठेका बोल) of the following Talas (ताल):
    - तेवरा, (२) सवारी-१५ मात्रांची, (३) टप्पा, (४) पंजाबी, (५) फरोदस्त, (६) पश्तो.
  - The paranas (परण) mohras (मोहरे) and paltas (पल्ले) in Tal-Notation.
- Definition of the following technical terms :
  - महाकाडी, (२) महाआडी, (३) फरणाइशी परण, (४) किस्म, (५) महाकिवाड, (६) लोम, (७) विलोम, (८) कुआद, (९) विआड.
- Topics for essays :
  - रस व लय यांचा संबंध.
  - तबल्याची साथ-संगत करण्याचे शास्त्र.
  - अवनद्ध (चर्मवाद्ये) वाद्यांचा इतिहास.
  - लोक-गीतांची ताल-वाद्ये व त्यांचा परिचय.
  - तबल्याच्या निरनिराळ्या बाजांची वैशिष्ट्ये.

**T.Y.B.A. / 191**

**Practical**  
(40 marks)

1. Talas Prescribed :  
(१) तेवरा, (२) सवारी - १५ मात्रांची, (३) टप्पा, (४) पंजाबी,  
(५) फिरोदस्त, (६) पश्तो.
2. Ability to :  
त्रिताल व झपताल या तालांचे स्वतंत्र (सोलो) वादन (अर्धा तासपर्यंत करता येते.) यात मुखडे, कायदे, परण, रेले, तिहाई, चर्कदार यांचा समावेश असायला पाहिजे (या वेळी लेहरा वाजविला जाईल).
३. तबल्यांच्या निरनिराळ्या घराण्यांतील बोल नामनिर्देश करून वाजविता येणे.

*S-5 Semester V*

**Theory**  
(Time 2 hours : 60 marks)

1. Ability to :
  - (i) Write the notation of all the previous Tablas (ताल) prescribed for practical (G.1, G.2, G.3) in various Layakaris (लयकारी).
  - (ii) From Kaydas (कायदे), Tukdas (तुकडे), Parnas (परण) and Relas (रेले) in the given Talas (ताल).
2. Short notes on :
  - (१) अकाल-वित्ताई मत, (२) मृदंगायती, (३) बंदबाज.
3. Topics for essays :
  - (१) भारतीय संगीतात तबलावादकाचे स्थान.
  - (२) भारतातील तालवाद्यांची परंपरा.
  - (३) नृत्याला साथ-संगीतासाठी आवश्यक असणाऱ्या गोष्टी.
  - (४) 'तबला' या शब्दाच्या व्युत्पत्तीसंबंधीची निरनिराळी मते.

**T.Y.B.A. / 192**

**Practical**

(40 marks)

- (१) आतापर्यंत सर्व ताल निरनिराळ्या लयीत, तयारीत वाजविता येणे.
- (२) कायदे, रेले, मोहरे, परण, तुकडे, पेशकारे व तिहाई यांची रचना करून वाजविणे.

*S-6 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Ability to write, in tal-notation, all the previous talas (ताल) studied in various Laya-Varieties (लय-प्रकार).
2. Knowledge of the following topics :
  - (१) उत्तम तबला-वादक बनण्यासाठी आवश्यक असणारे गुण.
  - (२) 'तबला-सोलो' वादनाचे नियम.
  - (३) मिश्रजातीतील कायदे.
  - (४) दोरा.
  - (५) जवाब.
3. Topics for essays :
  - (१) 'दिल्ली-घराणे' – तबल्याच्या सर्व घराण्यांचे उगमस्थान.
  - (२) कलेच्या दृष्टीने तबल्याचा झालेला विकास.
  - (३) प्रचलित तालांच्या आधारावर निराळे ताल वाजविण्याचे सिद्धान्त.
  - (४) तबल्यावर वाजविल्या जाणाऱ्या गतीची वैशिष्ट्ये.
  - (५) 'गीतं वाद्यं तथा नृत्यं यतस्ताले प्रतिष्ठितम्'।



**T.Y.B.A. / 193**

**Practical**

(40 marks)

- (१) मागील वर्षाचे सर्व ताल व त्यांचे ठेके (सर्व प्रकारांसाहित) तयारीत वाजविता येणे.
- (२) वाजविले जाणारे सर्व प्रकारचे बोल हाताने ताल देऊन व तोंडाने म्हणून वाजविता येणे.

*G-6 Semester VI*

**Theory**

(Time 2 hours : 60 marks)

1. Knowledge of the following topics :
  - (१) हिंदुस्थानी व दक्षिण तालपद्धतीतील साम्य व भेद.
  - (२) पाश्चात्य वाद्यांची माहिती.
  - (३) दक्षिण पद्धतीचे ताल व त्यांच्या जाती.
  - (४) पखवाजाची माहिती.
2. Showing difference between :
  - (१) तुकडा-परण, (२) कायदा-पेशकार, (३) ताल-ठेका,
  - (४) मोहरा-मुखडा, (५) चक्रदार-तुकडा.
3. Short accounts of the contribution of the following artists to Tabla :
  - (१) खाँ अल्लारखाँ, (२) खाँ मुनीरखाँ, (३) पं. अनाखेलाल मिश्र,
  - (४) श्री. महादेवराव इंदोरकर, (५) उ. करीमतुल्लाखाँ (कलकत्ता).
4. Writing of various Bols (बोल) in Tal notation (ताल नोटेशन).

**T.Y.B.A. / 194**

**Practical**

(40 marks)

- (१) ख्याल (बडा, छोटा), ठुमरी व गजल गायनाची योग्य साथ करणे.
- (२) निरनिराळ्या लयींचे ज्ञान व प्रात्यक्षिके हातांनी ताल देऊन, सर्व लयींतील तुकडे वगैरे तोंडानेही पाठ म्हणता येणे.
- (३) तिहाई, तुकडे, मुखडे वगैरे बनवून वाजविणे.
- (४) नृत्याच्या साथीसाठी आवश्यक असणारे बोल तोंडाने म्हणून तबला किंवा पखवाजावर वाजविता येणे.

*S-7 Semester VI*

**Theory**

(Time 2 hours : 60 marks)

1. Knowledge of the following topics :
  - (१) 'तबला' या वाद्याच्या निर्मितीचा इतिहास, रचना व बांधणी.
  - (२) दक्षिण भारतातील ताल-वाद्ये व त्यांची बनावट.
  - (३) पाश्चात्य ताल-वाद्यांची माहिती.
  - (४) हिंदुस्थानी ताल-वाद्ये व त्यांची बनावट.
2. Short notes on :
  - (१) खंड जाती ताल, (२) छंद, (३) पूरव बाज.
3. Short accounts of the contribution of the following artists to Tabla or Pakhavaj (तबला किंवा पखवाज) :
  - (१) उ. निझामुद्दीनखाँ
  - (२) श्री. माणिकराव पोपटकर.
  - (३) कै. नारायणराव कोली (पखवाजी).
  - (४) उ. गुलामरसूलखाँ.
  - (५) उ. शेख दाऊदखाँ.

**T.Y.B.A. / 195**

**Practical**

(40 marks)

- (१) तबला सोलो वादन (त्रिताल, झपताल, रूपक).
- (२) वाजविले जाणारे सर्व बोल वगैरे तोंडाने म्हणून नंतर त्याप्रमाणे तबल्यावर वाजविणे.

*S-8 Semester VI*

**Theory**

(Time 2 hours : 60 marks)

1. Ability to form various Kaydas (कायदे) Relas (रेले) Paranas (परण), Tukdas (तुकडे), Mukhadas (मुखडे) and Raus (रौ) in different Talas (ताल).
2. Short notes on :
  - (१) तबला-तरंग, (२) प्राचीन ताल-यंत्र, (३) तिहाऊ, तिचे प्रकार व वैशिष्ट्ये, (४) नग्मा किंवा लेहरा, (५) 'रेला' या प्रकाराची वैशिष्ट्ये.
3. Short accounts of the contribution of the following artists to Tabla or Pakhavaj (तबला किंवा पखवाज).
  - (१) कै. पं. भास्करराव चौगुले.
  - (२) श्री. सुरेश तळवळकर.
  - (३) स्व. कोदऊसिंह महाराज (पखवाजी).
  - (४) श्री. एस. व्ही. पटवर्धन.
  - (५) श्री. श्रीपाद नागेशकर.

**Practical**

(40 marks)

- (१) रौ, मोहरे, परण, तुकडे, कायदे, पेशकारे, तिहाई वगैरे सर्व प्रकार तयार करून वाजविता येणे.
- (२) गायन, वादन व नृत्य यांच्या निरनिराळ्या प्रकारांची योग्य साथसंगत करता येणे.
- (३) 'तबला-सोलो' वादन (त्रिताल, झपताल, रूपक).

**T.Y.B.A. / 196**

**(c) Vocal Light Music**

*G-5 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Notation writing of :
  - (i) State Song (नाट्यगीते) in the following Ragas :  
(१) अडाणा, (२) यमन, (३) दुर्गा, (४) मुलतानी.
  - (ii) The Talas (ताल) studied uptill now.
2. Detailed theoretical description of the Ragas (राग) mentioned above.
3. General knowledge of the following topics :  
(१) वारकरी भजन, (२) हार्मोनियम, (३) गवळण, (४) पोवाडा,  
(५) तबला, (६) सूत्रधार, (७) कलावंत, (८) भावगीत, (९) नट-  
नटींची स्टेजवरील गाण्याची जबाबदारी, (१०) रवींद्र संगीत.
4. Writing of 'Raga-Vistar' (राग-विस्तार) of the Ragas mentioned above.
5. Short accounts of the contributions of the following artists to stage and film music :
  - (१) कै. पं. विनायकराव पटवर्धन
  - (२) लता मंगेशकर
  - (३) श्री. श्रीपतराव नेवरेकर.
  - (४) श्री. वसंतराव देशपांडे
  - (५) श्री. जितेंद्र अभिषेकी.

**T.Y.B.A. / 197**

**Practical**  
(40 marks)

Ability to :

- (i) Recognize and reproduce Swaras (स्वर), Ragas and Songs heard on the spot.
- (ii) Sing at least one stage-song, in each of following Ragas, with Alap (आलाप) and Tanas (ताना) :  
(१) अडाणा, (२) यमन, (३) दुर्गा, (४) मुलतानी.
- (iii) Know and recite the Theka-Bols (ठेका-बोल) of the Talas (ताल) studied upto now.
- (iv) Sing 'Raga-Vistar' (राग-विस्तार) of the Ragas mentioned above.
- (v) Sing Traditional-Abhang (पारंपरिक अभंग) of Devotional Song (भक्तिगीत).
- (vi) Explain the similarities and differences between Sama Prakriti Ragas (समप्रकृती राग).

*S-5 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Notation writing of :

- (a) The stage songs (नाट्यगीते) from the following Ragas:  
(१) तोडी, (२) अडाणा, (३) सिंदुरा, (४) कलिंगडा.
- (b) The Talas (ताल) prescribed for light music.

**T.Y.B.A. / 198**

2. General knowledge of the following topics :

- (१) पूर्वीच्या नाटकांतील सूत्रधार-नटी व त्यांची वैशिष्ट्ये,  
(२) भारूडगीते, (३) भक्ति-संगीताची भारतीय परंपरा, (४) कीर्तन,  
(५) समर्पण, (६) श्लोक.

3. Short accounts of the contribution of the following artists to light music :

- (१) श्री संत तुकडोजी महाराज, (२) सी. रामचंद्र, (३) गजानन वाटवे, (४) सुलोचना चव्हाण, (५) राम कदम, (६) शंकर-जयकिशन.

**Practical**

(40 marks)

1. Detailed study of :

Stage-Songs (नाट्यगीते) from the following Ragas :

- (१) तोडी, (२) अडाणा, (३) सिंदुरा, (४) कलिंगडा.

2. Ability to :

- (i) Recognize and reproduce Shuddha-Vikrit Swaras (शुद्ध-विकृत-स्वर), Ragas (राग) or songs heard on the spot.
- (ii) Sing Traditional Abhangs (पारंपरिक अभंग) and some devotional songs (भक्तिगीते) from the Ragas mentioned above.
- (iii) Recognize the Talas (ताल) prescribed for light music while Tabla is being played.

(All Talas prescribed for Light Music).

**T.Y.B.A. / 199**

*S-6 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Notation writing of :
  - (a) The stage songs from the following Ragas :  
(१) जोगिया, (२) नंद, (३) अहीरभैरव, (४) पहाडी.
  - (b) 'Swara-Vistar' (स्वर-विस्तार) of the above mentioned Ragas.
2. Detailed theoretical description of the above mentioned Ragas.
3. General knowledge of :
  - (१) गजल, (२) दादरा, (३) चैती, (४) भजन व गीत,
  - (५) वासुदेव.
4. Short accounts of the contribution of the following artists:  
(१) संत सूरदास, (२) जयदेव, (३) प्रसाद सावरकर, (४) रामदास कामत.

**Practical**

(40 marks)

1. Detailed study of :
  - (a) Stage songs from the following Ragas :  
(१) जोगिया, (२) नंद, (३) अहीरभैरव, आणि (४) पहाडी.
2. Ability to :
  - (i) Recognize and reproduce Shuddha-Vikrit-Swaras (शुद्ध-विकृत-स्वर) or songs heard on the spot.
  - (ii) Sing traditional Abhangas (पारंपरिक अभंग) and some devotional songs (भक्तिगीते) from the Ragas mentioned above.
  - (iii) Recognize the Talas prescribed from light music while Tabla is being played.

**T.Y.B.A. / 200**

*G-6 Semester IV*

**Theory**

(Time 2 hours : 60 marks)

1. Notation writing of :
  - (i) Stage-songs (नाट्यगीते) in the following Ragas :  
(१) भीमपलास, (२) काफी, (३) जयजयवंती, (४) भैरवी.
  - (ii) Talas (ताल) studied upto now.
2. Detailed theoretical description of the Ragas (राग) mentioned above.
3. Similarities and differences between the Sama-Prakriti Ragas (समप्रकृती राग) studied upto now.
4. Writing of the 'Raga-Vistar' (रागविस्तार) of the Ragas mentioned above.
5. Topics for essays :
  - (१) आजचे व पूर्वीचे नाट्यसंगीत.
  - (२) नाटकांत संगीताची आवश्यकता.
  - (३) लोकसंगीताचे प्रकार व त्यांची वैशिष्ट्ये.

**Practical**

(40 marks)

Ability to :

- (i) Recognize and reproduce Swaras (स्वर), Ragas (राग) and songs heard on the spot.
- (ii) Sing at least one stage-song (नाट्यगीत) in each of the following Ragas, with Alap (आलाप) and Tanas (ताना) :
  - (१) भीमपलास, (२) काफी, (३) जयजयवंती, (४) भैरवी.



**T.Y.B.A. / 201**

- (iii) Know and recite the Theka-Bols (ठेका-बोल) of the Talas (ताल) studied upto now.
  - (iv) Sing 'Raga-Vistar' (रागविस्तार) of the Ragas, mentioned above.
  - (v) Sing Abhang (अभंग), Folk-songs (लोकगीत), Bhawageet (भावगीत) and Samooha Geet (समूहगीत).
  - (vi) Explain similarities and differences between Samprakriti Ragas (समप्रकृती राग).
2. Ability in stage performance (सभागायन) (for about 30 minutes).

*S-7 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Notation writing of :
  - (a) Stage songs (नाट्यगीते) from the following Ragas :  
(१) भैरवी, (२) देस, (३) सारंग, (४) भीमपलस.
  - (b) Swara-Vistar of the Ragas mentioned above.
2. Topics for essays :
  - (१) संगीत नाटक - महाराष्ट्राचे एक वैशिष्ट्य व भूषण.
  - (२) पूर्वीच्या व आजच्या नाटकांतील संगीत.
  - (३) पार्श्वगायक-गायिकांची योजना व त्यांची जबाबदारी.
  - (४) भारतीय संगीत-साहित्यात भक्तिसंगीताचे योगदान.
  - (५) संगीताची मूलतत्त्वे - 'स्वर व लय'.
3. Detailed theoretical description of the Ragas mentioned above.

**T.Y.B.A. / 202**

**Practical**

(40 marks)

1. Detailed study of :  
Stage-song (नाट्यगीते) from the following Ragas :  
(१) भैरवी, (२) देस, (३) सारंग, (४) भीमपलास.
2. Ability to :
  - (i) Recognize and reproduce Shuddha-Vikriti-Swaras (शुद्ध-विकृत-स्वर) Ragas Talas or songs heard on the spot.
  - (ii) Sing Bhavgeet (भावगीत), Folk-songs (लोकगीत), Sanchalan-Geet (संचलन गीत) and Samooha-Geet (समूहगीत).
  - (iii) Explain the similarities and differences between the Ragas studied upto now.

*S-8 Semester V*

**Theory**

(Time 2 hours : 60 marks)

1. Notation writing of :
  - (a) The stage songs from the following Ragas :  
(१) मंड, (२) पिलू, (३) बिहाग, आणि (४) बागेश्री.
  - (b) The Talas studied upto now.
2. Topics for essays :
  - (१) महाराष्ट्राचे लोकसंगीत.
  - (२) भावगीतांच्या साधनेसाठी शास्त्रीय संगीताच्या शिक्षणाची आवश्यकता.
  - (३) भारतीय गायक संत व त्यांचे कार्य.
  - (४) हल्लीचे सिने-संगीत.
3. Similarities and differences between the Ragas studied upto now.

**T.Y.B.A. / 203**

**Practical**

(40 marks)

1. Detailed study of :  
Stage songs from the following Ragas :  
(१) मंड, (२) पिलू, (३) बिहाग, आणि (४) बागेश्री.
2. Ability to :
  - (i) Recognize and reproduce Shuddha-Vikrit Swaras (शुद्ध-विकृत-स्वर) or songs heard on spot.
  - (ii) Sing Bhavgeet (भावगीत), Folk-song (लोकगीत), Sanchalan-Geet (संचलन-गीत) and Samooha Geet (समूह-गीत).
  - (iii) Sing National Anthem (राष्ट्रगीत).
  - (iv) Explain the similarities and difference between Samaprakriti (समप्रकृती) Ragas, Studied upto now.

**संदर्भ-ग्रंथ**

- (१) संगीत विशारद (हाथरस प्रकाशन, उ. प्र.) लेखक 'वसंत'.
- (२) हमारे संगीत रत्न (हाथरस प्रकाशन, उ. प्र.) संगीत प्रकाशन मंडळ.
- (३) ताल प्रकाश (हाथरस प्रकाशन, उ. प्र.).
- (४) संगीत चिंतामणी संगीत कार्यालय (हाथरस प्रकाशन, उ. प्र.)  
आचार्य बृहस्पती.
- (५) वाद्यसंगीत (हाथरस प्रकाशन, उ. प्र.).
- (६) संगीतशास्त्रप्रकाश (हाथरस प्रकाशन, उ. प्र.).  
Theory of Indian Music.
- (७) वैदिक संगीत अथवा संगीताचे प्राचीन स्वरूप - धुंडीराजशास्त्री बापट.
- (८) संगीतशास्त्र, भाग १, २, ३ - ले. महेश नारायण सक्सेना.

**T.Y.B.A. / 204**

- (९) 'संगीत' मासिक (हाथरस प्रकाशन).
- (१०) 'संगीत कला विहार', अ.भा.गा.म.वि. मंडळ प्रकाशन (मिरज), नासिक.
- (११) वितत-वाद्य-शिक्षा, हाथरस कार्यालय - ले. श्रीपाद बंडोपाध्याय.
- (१२) आधुनिक संगीतज्ञ - पुराना वैहरना, इलाहाबाद - ले. रवींद्र पारीक.
- (१३) हिंदुस्थानी क्रमिक संगीतपद्धती (भाग १ ते ६) - कै. पं. वि. ना. भातखंडे.
- (१४) 'राग-विज्ञान' (भाग १ ते ४) - कै. पं. विनायकबुवा पटवर्धन.
- (१५) 'तबला' - ले. अरविंद मुलघावकर, साधना प्रकाशन, पुणे.
- (१६) वायलिन - लेखक - नारायण वि. पंडित, मुंबई.
- (१७) हार्मोनियम - लेखक अ. वि. बेडेकर, सुविचार प्रकाशन, नागपूर.

**T.Y.B.A. / 205**

**(21) Ancient Indian Historym Culture  
and Rechaeology**

**Topics-General Course**

**(Outline of Religion and Philosophy)**

1. Vedic Religion and Philosophy (with special reference to the Rigveda and Atharvaveda).
2. Religion of the Yajurveda and the Brahmana works (with special reference to the Yajna system).
3. Philosophy of the Aranyakas and the Upanishads.
4. Religion of Epics and Puranas (with special reference to Shaivism and Vaishnavism).
5. Philosophy of the Bhagavadgita.
6. Lokayatika (Charvaka) system.
7. Jaina Religion and Philosophy : Historical development, Tirthankaras, Parshva and his Chaturyama Cult-Mahavira : his life and teaching. Anekantavada (Padarthas), Nayavada and Syadvada. Two sets of Jainism, seven categories, spread of Jainism-Impact of Jainism on Indian Culture.
8. Buddhism-Historical Development, Buddha's life and teaching, Two sets of Buddhism, Buddha Sangha, Spread and decline of Buddhism, Impact of Buddhism on Indian Culture.
9. Influence of heterodox systems on Indian Culture.

General Paper I-Topics from 1 to 5 should be prescribed for the term-end examination to be held in October.

**T.Y.B.A. / 206**

**Special Paper-Outline of Ancient Indian Literature (S-3)**

1. Introduction to Vedic, Jaina and Buddhist Religious Literature.
2. Epics, Puranas, Classical Literature Topics under 1- to be prescribed for the term-end examination to be held in October.

**Special Paper II-Greater India (S-4)**

1. Sri Lanka, Burma, Central Asia, Afganistan, Nepal.
2. South-East Asia, Cambodia, Champa, Java, Sumatra, Malaya, Borneo, Bali, Thailand.  
Topics under 1- to be prescribed for term-end examination.

*Books Recommended*

G-3 : Semester III, Course I and G-4 Semester IV, Course II

१. प्राचीन भारताचा सांस्कृतिक इतिहास - राहुरकर, गायधनी.
२. वैदिक देवतांचे अभिनव दर्शन - डॉ. रा. ना. दांडेकर.
३. वैदिक देवताशास्त्र - सूर्यकांत (हिंदी).
४. भारतीय तत्त्वज्ञान - प्रा. श्रीनिवास दीक्षित.
५. भारतीय तत्त्वज्ञानाची रूपरेखा - अनु. केतकर.
6. Outlines of Indian Philosophy - M. Hiriana.
7. Studies in Epics and Puranas - Dr. A. D. Pusalkar.
८. गीत : एक अध्ययन - डॉ. चिं. त्र्यं. केंधे.
9. Vaishnavism, Shaivism and Minor Religious Systems-  
Dr. R. G. Bhandarkar.

**T.Y.B.A. / 207**

१०. चार्वाक : इतिहास व तत्त्वज्ञान - डॉ. सदाशिव आठवले.
११. जैनधर्म आणि संप्रदाय- डॉ. शां. बा. देव.
१२. बुद्धधर्म आणि संघ - डॉ. धर्मानंद कोसंबी.
१३. भगवान बुद्ध - डॉ. धर्मानंद कोसंबी.
14. An Introduction to Indian Philosophy–Chatterji and Dutta.
१५. भारतीय धर्म आणि तत्त्वज्ञान - डॉ. श्री. भा. वर्णेकर.

**T.Y.B.A. / 208**

**(22) Economics**

**Appendix  
Circular No. 122/1999**

**UNIVERSITY OF PUNE**

**COURSE STRUCTURE**

**T.Y.B.A. Economics General and Special Papers  
Revised Syllabi**

**G-3 Indian Public Finance and Planning**

**S-3 (Options)**

1. History of Economic Thought.
2. Economics of Development.
3. Agricultural Economics.

**S-4 (Options)**

1. Research Methodology.
2. International Economics.
3. Co-operation and Rural Development.



**T.Y.B.A. / 209**

**Circular No. 122/1999**

**T.Y.B.A. (Economics)**

**G-3 Indian Public Finance and Planning**

**SECTION-I**

1. *The Nature and Scope of Public Finance :*  
Public Finance Meaning, Scope Principle of Maximum Social Advantage.
2. *Indian Union Budgets :*  
Revenue and capital budgets—Surplus, deficit and balanced budget, different concepts of deficit, Revenue deficit, Fiscal deficit, monetized deficit and primary deficit with reference to latest Union budget of India, Objectives of budgetary Policy : Allocation, distribution stabilization and Growth.
3. *Indian Public Expenditure :*  
Classification of Public Expenditure; Developmental and Non– developmental, Plan and Non-Plan expenditure-Reason for growth of Public expenditure in India.
4. *Indian Tax System :*  
Structure of Indian taxation; Direct and Indirect taxes of the Union and State Government, Income Tax, Corporation Tax, Union Excise, Customs, Land Revenue & Sales Tax, Characteristics of Indian tax system, Indian tax Reforms since 1991.
5. *Indian Public Debts :*  
Sources of Internal and External debt—Burden of Public debt causes of rise in the public dept. Economic effects of Public debt, Repayments of public debt.

## **T.Y.B.A. / 210**

6. *Union State Financial Relation :*

The Role of Finance Commission, Union, State and Inter State devolution of financial resources – its criteria. The role of Planning Commission of Tenth Finance Commission.

7. *Planning in India :*

Planning : Concepts, Objectives, Process, Planning Commissions Formulation of India's Five-Year Plan.

8. *Indian Planning :*

Objectives, Strategy, Investment Financing of the Plan (with reference to Seventh and Eighth Year Plans).

9. Achievements of India with reference to Growth rates of National and per capita income, Growth rates in Agriculture and industry, self sufficiency, poverty alleviation and Expansion of Employment opportunities.

### *References*

B. P. Tyagi, Public Finance, Jayprakash, Meerut Andley and Sundaram, Public Economics and Public Finance, Ratan Prakashan, Delhi.

M. C. Vaish and H. S. Agarwal, Public Finance, Wiley Estern Ltd, New Delhi.

Misra and Puri, Economics of Development and Planning, Himalaya, 1996, Govt. of India, Budget at a Glance (Various years). Ministry of Finance, Budget Division, New Delhi.

Govt. of India—Latest available Economic Survey, Ministry of Finance, Economic Division, Delhi, R. Datta and KPM Sundaram, Indian Economy, S. Chand, 1990, Tondon and Tondon, Indian Economy, Tata McGraw Hill, 1997.

**T.Y.B.A. / 211**

**Scheme of Papers at T.Y.B.A. Economics  
with effect from July 1995 onwards**

G-3 Indian Economy Paper II (Problems and Policies)

एस-३ खालील चार पेपर्सपैकी कोणताही एक पेपर घेणे :

1. Agricultural Economics.
2. History of Economics Thought.
3. Public Finance.
4. Statistical Pre-requisites.

एस-४ खालील चार पेपर्सपैकी कोणताही एक पेपर घेणे :

1. Rural Economics.
2. Economics of Development.
3. International Economics.
4. Quantitative Techniques.

**T.Y.B.A. / 212**

**T.Y.B.A. Special-3 (Options)**

**Agricultural Economics (Revised Syllabus)**

**First Term :**

I. *Role of Agriculture in the Economy :*

Peculier features of agriculture in an underdeveloped Economy-Risk and uncertainty in Agriculture.

II. *Production and Productivity :*

Reasons for low productivity-Technology factors-Institutions factors, Measures to increase Productivity. Production and Productivity trends-Growth rates in Indian Agriculture-Regional variations in Agricultural Productivity in India.

III. *Land Reforms :*

The Concepts of Land Reforms, Technical and Institutional Land Reforms : Achievement and Failures in India.

IV. *Agricultural Marketing :*

Marketing functions-Defects in Marketing Policies and Measures to improve Agricultural Marketing in India.

**Second Term :**

V. *Agricultural Finance:* Importance of Agricultural Finance, sources of Agricultural Finance in India. Non-Institutional : Relatives-Moneylenders, Traders and Commission Agents Institutional Credit Co-operatives, Commercial Banks Regional Rural Banks, NABARD.

**T.Y.B.A. / 213**

- VI. Agricultural Prices : Important factors influencing pricing of Agricultural Produce, Problems and Policy in India.
- VII. Instabilities in Agricultural Sector and Measures to stabilize-Crop Insurance for Crop Protection-Drought Relief, Relief from Natural and other Calamities.
- VIII. Agricultural Labour : Characteristics of Agricultural Labour, Social Status of Farm Labour, Earning of Agricultural Labour, Standards of Living, Indebtness and Housing Conditions.

*References*

1. Economics of Organization of Agriculture—Theodore, Schultz.
2. Agricultural Problems in India, Ed. 1986—Singh, Sadhu, Himalaya Publishing House, Bombay.
3. Agricultural Finance : Theory and Practice, Ed. 1988—J. P. Singh, Ashish Publishing House, New Delhi-26.
4. Economic Problems of Indian Agricultural, Ed. 1990—G.D. Agrawal, P. C. Bansil, Vikas Publication, Bombay-4.
5. Indian Economy- Misra and Puri Himalaya, Mumbai, 1997.
6. Indian Economy R. Datta and KPM Sundaram—S. Chand, New Delhi, 1998.

**T.Y.B.A. / 214**

**T.Y.B.A. Economics**

**Circular No. 122/1999**

**Revised Course Special Paper-3 (Options)**

**History of Economics Thoughts**

**First Term :**

- I. Adam Smith : Concepts of Division of Labour, Economic freedom and free trade Naturalism, function of state in Economic Development.
- II. Thomas Malthus : Theory of population, Say's Law of Market, Reactions on Say's Law.
- III. David Ricardo : Theory of value, Theory of Rent.
- IV. Karl Marx : Dialectical materialism, Critique of capitalism, Exploitation of labour, class war, future of capitalist system, surplus value theory.

**Second Term :**

- V. Fredrik List : Concepts of Economic Nationalism protection and production power, free trade policy V/S protectionist Policy.
- VI. Joseph Schumpeter : Concept of innovation, Innovation as a tool of growth, Role of Entrepreneurship in Economic Development.
- VII. Johan Meynard Keynes : General Theory of employment, concept of under employment equilibrium, Keynesian macro-economic policy with reference to full employment and Inflation.

**T.Y.B.A. / 215**

*References*

1. Eric Roll : A History of Economic Thought, pages 227 to 231.
2. Dr. S.S.M.Desai : Development of Economic Thought.
3. Satish Bahadur and Bhatnagar : History of Economic Thought.
4. Shrivastav : History of Economic Thought.
5. Dr. S.S.M.Desai, Dr. Santosh Dastane and Yewalekar : Development of Economic Thought.
6. जायभाये आणि पाटील : आर्थिक विचारांचा इतिहास.
7. काटे आणि भोसले : आर्थिक विचारांचा इतिहास, फडके प्रकाशन, कोल्हापूर.
8. प्रो. डॉ. दास्ताने, एस. आर. : आर्थिक विचारांचा इतिहास.
9. डॉ. देसाई, जोशी, भालेराव : आर्थिक विचारांचा इतिहास.

**T.Y.B.A. / 216**

**Special Paper-3**

**History of Economic Thought**

1. Beginning of Modern Economics-The Mercantalism Causes of rise, and main features.
2. Physiocracy-Reactions against mercantalism, Larssnz, Fair Quensnay's Economic Table.
3. Adam Smith-Father of Economics, founder of Classical school, his concept of regarding division of labour, economic freedom. Free Trade and Function of a State.
4. Thomas Malthus-Theory of Population-critique of capital-Accumulation Reactions against Say's Law of Market.
5. David Ricardo-Theory of Rent, Relation between labour and value.
6. Socialism as a reaction against capitalism-Brief concepts of Utopian Socialism.
7. Karl Marx-Critique of capitalism, Exploitation of labour, Dialectical Materialism, Class war, Future of capitalist system, Surplus value Theory.
8. Fredrik List-Concept of productive power, Concept of free trade policy.
9. Principle of Margin, J.S.Mill, as a last classical economist-Marshallian synthesis.
10. Joseph Schumpeter-Concept of Growth Innovation, Role of Entrepreneur.
11. Mrs. Joan Robinson, Mr. Chamberlain Monopolistic competition.
12. John Maynard Keynes-General theory of employment, Keynesian Economics, Modern economic policy.



## **T.Y.B.A. / 217**

### *Books Recommended*

1. Eric Roll : A History of Economic Thought (pages 227 to 231) Faber and Ltd., London.
2. Development of Economic Thought : Dr. S. S. M. Desai
3. Satish Bahadur and Bhatnagar : History of Economic Thought.
4. Shrivastav : History of Economic Thought.
5. Development of Economic Thought : Dr. S.S.M. Desai, Dr. Santosh Dastane and Yewalekar.
6. जायभाये आणि पाटील : आर्थिक विचारांचा इतिहास.
7. काटे आणि भोसले : आर्थिक विचारांचा इतिहास.

### **Special Paper-3**

#### **Public Finance**

1. The role of Government in an economic system.
2. Nature of public finance-Public finance and private finance-Principle of maximum social advantage.
3. Public Expenditure-Meaning, Classification, Objectives and role-effects of public expenditure on production, Distribution and employment.
4. Financing of Government expenditure-Taxation, borrowing, and other methods-their relative importance and peculiarities.
5. Taxes-classification-Direct and indirect taxes, Progressive proportional and regressive taxation Impact, incidence and effects of taxation-Benefit approach, Ability to pay approach-Objectives of taxation policy-income redistribution growth, taxable capacity.

### **T.Y.B.A. / 218**

6. Budget-The concept of budget, the components of budget, Revenue and capital budget-Surplus, deficit and balanced budgets-Role of budget in allocation, distribution and stabilization-Budgetary policy for growth-Functional finance.
7. Fiscal policy-The role of Fiscal policy, Objectives of Fiscal policy in developing economy-Limitations of Fiscal policy-Compensatory finance.
8. Deficit Financing-Meaning, need (rationale), Consequences of deficit financing.
9. Public Debt-Meaning, objectives, role of public debt, internal and external debt, burden and benefits of public debt, repayment of public debt.

#### *Books Prescribed*

- (a) Hugh Dalton—Principles of Public Finance (24th Ed).
- (b) A. P. Lerner—Economics of Control Chapter on Functional Finance (Allen and Unwin, London).
- (c) C. M. Allan—Theory of Taxation.
- (d) A. R. Prest—Public Finance in Theory and Practice.
- (e) B. P. Tyagi—Public Finance.
- (f) Bhatia—Public Finance, International Economics.

### **Special Paper-3**

#### **Statistical Pre-Requisites**

1. Methods of collecting and presenting the statistical data-Graphical methods-Measures of central tendency Dispersion and Skewness-Correlation and regression for bivariate data-Ideas of partial and multiple correlation for trivariate data.

**T.Y.B.A. / 219**

2. Elementary Probability Theory-Standard probability distribution : Binomial sampling methods-Board logic of tests of hypothesis. Tests concerning Means, Variances, Proportions, Correlations coefficient Chisquare tests of goodness of fit-Test of independence of two attributes.
3. Analysis of Variance-Techniques in one way and two way classification.
4. Sampling Techniques, Simple Random, Stratified and Systematic-Brief introduction of SQC of control charts, Indian official statistics-Price statistics, National income statistics.
5. Index number and analysis of time series.

*Books Prescribed*

- (a) Statistical Methods—S. P. Gupta.
- (b) Economics, Statistics—G. S. Monga.
- (c) Modern Elementary Statistics—J. E. Freud.
- (d) Quantitative Techniques—Thamb L. C.

**T.Y.B.A. / 220**

**T.Y.B.A. (Economics)**

**Special Paper 4 (Options)**

**Cooperation and Rural Development**

**Section I**

1. *Cooperation :*  
Meaning, Nature, scope and importance-cooperation as the means of Economic development.
2. *Organization of Cooperatives :*  
Objectives, memorandum and Articles of Association, model by-laws Board types of cooperative societies, Urban, Rural credit, Industrial Co-operatives, Marketing, Societies, Functions of Co-operative Societies, Consumer protection.
3. *Rural Development through Co-operation :*  
The Role of Indian Co-operative movement in rural development, Achievement and failures.

**Section II**

4. *Nature and Problems of Rural Economy :*  
Concept of Rural Economy, its nature and problems-imbalance between Rural and Urban Sectors, causes of imbalance measures, reduce imbalance.
5. *Role of Co-operative Agro-Industries in Rural Development :* Study of Co-operative Sugar Industry-Dairy and milk product, cotten textile industry.
6. *Programmes for Rural Development in India :*  
Integrated Rural Development Programme (IRDP), Area specific programme (ASP), Drought prone Area programme (DPAP), Hill Area Development project (HADP), Tribal Area Development Project (TADP), Command Area Development Agency (CADA), Employment Oriented programmes : Jawahar Rojgar Yojana (JRY), and Employment Guarantee Scheme (EGS), Training for Rural Youth for Self-Employment (TRYSEM).

**T.Y.B.A. / 221**

*References*

1. S. S. Mathur : Cooperation in India.
2. D. R. Krishnaswamy : Fundamentals of Cooperation.
3. Vasant Desai : Fundamentals of Rural Development, Himalaya, Delhi.
4. S. P. Jain : Indian Rural Economics, Vikas, Delhi.
5. K. V. Patil : Rural Economics, Himalaya, Delhi.
6. भोसले, काटे : भारतीय अर्थव्यवस्था, फडके प्रकाशन, कोल्हापूर.
7. प्रा. बोरीकर कुलकर्णी : भारतीय ग्रामीणव्यवस्था आणि सहकार.
8. प्रा. के. एच. ठक्कर : भारतीय अर्थव्यवस्था, फडके प्रकाशन, कोल्हापूर.
9. प्रल्हाद झेंडू चौधरी : सहकारी तत्त्वे : इतिहास व सहकारी संस्थांची कार्यपद्धती, माधुरी प्रकाशन, पुणे.

**T.Y.B.A. / 222**

**T.Y.B.A. Economics-Special IV (S-4) (Optional)**  
**Research Methodology**  
(80 Marks for theory and 20 Marks for the Project)

**Section I**

**First Term :**

1. *Research in Social Sciences :*
  - 1.1 Need and functions of Social Sciences research  
Meaning-Types and objectives-Comparison  
between research in Natural and Social Sciences.
  - 1.2 Research in Economics-nature and scope of  
theoretical and applied research. Distinction  
between theoretical and applied research.
  - 1.3 Social Survey-Definition and Nature, Planning a  
Social Survey and Social-Economic Survey.
2. *Research Methodology :*
  - 2.1 Principles of Research :
    - (a) Concepts–Meaning, Classification and  
characteristics.
    - (b) Hypothesis–Meaning, types and presen-  
tation.
  - 2.2 Stages in Research :
    - (a) Selection of Topic.
    - (b) Objectives setting.
    - (c) Research design, Types Exploratory, Digno-  
stic, Hypothesis Testing.
3. *Use of Library and Documents :*
  - 3.1 Procedure of using library, merits and limitations.

**Second Term :**

4. Methods of Collecting information :
  - 4.1 Data Collection–process and methods.
  - 4.2 Drafting of questionnaires–structured, open and  
close questionnaires merits and limitations.

### T.Y.B.A. / 223

- 4.3 Interviewing—meaning, Types, Techniques—Merits and limitations.
- 4.4 Observation—meaning, Technique, Types—merits and limitations.
- 4.5 Case study—meaning, Technique—merits and limitations.
5. *Classification, Analysis and interpretation of data.*
6. *Writing a Project Report :*
  - 6.1 Objectives, scope and contents.
  - 6.2 Characteristics of a good report.
7. *Project Report on any one of the topics :*

The topics should include case study, review of Economic literature, conduct of surveys etc. The report should be in between 3000 to 4500 words (15 to 25 pages approximately).

### *References*

1. Introduction to the Methods of Social Sciences—Jean Louis Loubet del Bayle (Edited by J. C. Johari).
2. Research Methodology : Techniques and Trends —V. V. Khanzode, Avishkar, Jaipur.
3. Research Methods in Social Sciences—B. A. V. Sharma, D. Ravindra Prasad, P. Satyanarayana, Sterling Publishers Pvt. Ltd., Delhi. (1983).
4. अर्थशास्त्रीय संशोधनाची तोंडओळख : डॉ. पाटील, पठाण, ताम्हणकर, कॉन्टिनेंटल प्रकाशन, पुणे-३०.
5. सामाजिक संशोधन पद्धती : सी. गुरुनाथ नाडगोडे, फडके प्रकाशन, कोल्हापूर.
6. सामाजिक संशोधन पद्धती : डॉ. पु. ल. भांडारकर, महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

**T.Y.B.A. / 224**

**Special Paper-4**

**Rural Economics**

1. *Rural Economy-General Problems* : Poverty and Inequality, Unemployment and under employment. Disguised unemployment, Absence of alternative work opportunities, Unfavourable terms of trade-Illiteracy and rural health problems, Measures taken by Government in this regard.
2. *Social Organization of Rural Life* : Village settlement pattern as a community life, nuclear non-nuclear family as a social unit-Social structure-Castes and inter-relations among them through tradition contracts, Communications and social relationship-Social and economic class structure.
3. *Rural Economic System and Organization for Use of Local Resources* : Land holding, land tenure systems, co-operative farming, Co-operative credit and other sources of credit, Labour market, Salient features, pattern of labour hiring, contract labour, bounded labour, self employment, Rural Leadership-main features, Ballet system.
4. *Rural Administration* :
  - (a) Panchayat Raj-Its Organization and working-Significance Role-Performance-Problems.
  - (b) Community Development Block-Its organization and working, significance-Role-Performance-Problems.
  - (c) Voluntary Agencies-Organization and working-Significance Role-Performance-Problems.



**T.Y.B.A. / 225**

- (d) Multi-purpose co-operatives Organization and working-Significance Role-Performance-Problems.
- 5. *Rural Planning : Need for Rural Planning :*
  - (a) Role of Village Panchayat in planning-Land holding-Water Resources, Cropping programmes-Roads-Community facilities and services-Schools-Roads-Community facilities and service Schools-Dispensaries, Co-operatives.
  - (b) Regional Planning-Block level plans-Concept and scope-broad elements.
  - (c) Planning for special groups and area-Tribal, scheduled caste, displaced persons, educated unemployed areas-Hilly areas inaccessible areas, drought prone areas.

*Books Recommended*

1. Fundamentals of Rural Development : Vasant Desai (1991), Himalaya Publishing House, Bombay-4.
2. Indian Rural Economics : S. P. Jain, Vikas Publication.
3. Rural Economics : K. V. Patil, A. C. Shah, Himalaya Publishing House, Delhi, 1984.
4. Poverty Alleviation : G. Morely, Mohanlal, Himalaya Publishing House, Delhi, 1988.

**T.Y.B.A. / 226**

**T.Y.B.A. (Economics)  
Circular No. 122/1999  
Special Paper (Options)**

**Economics of Development (Revised Syllabus)**

**First Term :**

1. Introduction-Economic Development meaning Economics Development and Economic growth-Indicators of Economic Development-Human Development Indicators (HDI) and Economic Development.
2. Characteristics of less developed countries (LDCS) Economic and non Economics.
3. *Constraints on Development Process :*
  - (i) Capital Constraint vicious circle of poverty. Under developed money market, Capital market.
  - (ii) Population constraint, comparative population, statistics of developing countries, population growth and Economic development problem of under employment and disguised unemployment.
  - (iii) Constraints of backwardness, Agricultural sector, small size of holding, lack of modernization defects in marketing.
  - (iv) Socio-Culture barriers social tradition and caste system attitude towards work, investment and material being.

**Second Term :**

4. Planning for Development :
  - (i) Need for planning, Planning in a mixed Economy, Resources mobilization-implementation of a plan Allocation Resources.
  - (ii) Investment Criteria, capital Turnover criterion, Social marginal Productivity criterion, Reinvestment criterion, series criterion.
  - (iii) Choice of Techniques-Labour intensive capital intensive-Schumpeter's case for intermediate technology.

## T.Y.B.A. / 227

5. *Foreign Trade and Development* :  
Trade as an engine of Development, Import substitutions and Export promotion as policies of Development.
6. *Foreign Capital* :  
Role in development, types of foreign investment-Direct investment and portfolio-investment.
7. *Human Resources Development (HRD)* :  
Investment in human resource-population control-Education-General, Technical and Vocational Education, Education and Entrepreneurship Development.

### References

1. Economics of Development and Planning, Ed. 1993 : A. N. Agarwal, Kundan Lal, Vikas Publishing House, Majid Road, Jangapura, New Delhi-110014.
2. Economics of Development and Planning, Ed. 1988 : M. L. Jhingan, Vikas Publishing House-5, Ansari Road, New Delhi-110002.
3. Development and Planning, Ed. 1990 : S. K. Misra and V. K. Puri, Himalaya Publishing House, Dr. Bhalerao Marg, Mumbai-400 004
४. आर्थिक विकासाच्या सामाजिक बाजू, आवृत्ती १९८८ : श्री. विद्याधर पुंडलिक, काँटिनेंटल प्रकाशन, पुणे-३०.
५. विकासाचे अर्थशास्त्र : डॉ. संतोष दास्ताने, प्रा. गोडबोले, सेठ पब्लिकेशन, आप्पा बळवंत चौक, पुणे-२.
६. विकासाचे अर्थशास्त्र आणि नियोजन, आवृत्ती १९८५ : प्रा. विजय कवि मंडन.
७. आर्थिक विकास नियोजन, १९९० : डॉ. रवींद्र जोशी, अजब पुस्तकालय, कोल्हापूर.
८. विकासाचे अर्थशास्त्र, आवृत्ती १९८० : प्रा. पत्की, प्रा. साबळे, रामदास पेठ, पिंपळापुरे अँड कं., नागपूर.

**T.Y.B.A. / 228**

**Special Paper-4**

**Economics of Development**

1. Introduction : Economic Development-Meaning of Economic Development-Economic Development and Economic Growth-Indicators of Economic Development-Development and under development-Meaning of the term-Less developed and developing economy.

2. Characteristics of Less Developed Countries (L.D.C.) : Economic Characteristics-Predominance of Agriculture with its backwardness, Dualistic Economy, General Poverty, Low level of living, Low rate of capital formation, disguised unemployment-Demographic characteristic-Types of less developed countries.

Socio Cultural Characteristics. Technological and other characteristics.

3. Constraints on Development Process : Capital constraint-importance of capital formation-Vicious circle of poverty/Underdeveloped money/Capital markets, Demonstration effect and saving. Other difficulties. Population constraints-Comparative population statistics of developing countries, Population growth and economic development Problem of underemployment and disguised unemployment-Constraints of the agricultural sector problem of economic holdings, Problems of modernization of agriculture, Problem of market development, Problem of agricultural credit-problem of development of allied sectors, Socio-Cultural barriers, Social pluralism-Traditional social structure with extended kinship with village society, with cast system. Precapitalistics values. Attitudes toward work, investment and material will being.

4. Planning for Development : Need for planning, planning in a mixed economy. Formulation of a plan and resource mobilization, Implementation of a plan, Allocation of resources, Investment criteria, Capital turnover criterion, Social marginal productivity criterion, Reinvestment criterion, Time series criterion, Choice of techniques, Labour intensive, Capital intensive, Schumacher's case for intermediate technology.

**T.Y.B.A. / 229**

5. Role of controls and incentives in economic development- Role of monetary policy. Role of Fiscal policy. Direct Governmental intervention.
6. Foreign trade and development-trade as an engine of development, Trade agreements, Import substitution, Export promotion, Exchange rate policy, Trade Vs. Aid.
7. Foreign capital-Role in development, Types of foreign investment, direct and portfolio problems.
8. Human Resource Development-Population control, Education-General, Technical and Vocational entrepreneurship.

*Reference Books*

1. S. K. Ry : Economics of Development.
2. G. M. Meier (Ed.) : Leading Issues in Economic Development.
3. M. L. Jhingzan : The Economics of Development and Planning.
4. J. Bhagwati : Economic Development.
5. Kindleberger : Economic Development.
6. S. Chakravarty : Development Planning.
7. Richard T. Gill : Economic Development—Past and Present.
८. डॉ. मुकुंद महाजन : विकासाचे अर्थशास्त्र.
९. एस्. डी. तुपे - विकासाचे अर्थशास्त्र.
१०. संतोष दास्ताने : विश्वनाथ गोडबोले : गीत-विकासाचे अर्थशास्त्र.

**T.Y.B.A. / 230**

**T.Y.B.A. Economics**

**Circular No. 122/1999**

**Special Paper 4 (Options)**

**International Economics (Revised Course)**

**First Term :**

1. Inter-regional and International trade, Nature, Importance and Scope of International Trade.
2. *Theories of International Trade* : Theory of comparative cost. The Heckscher Ohlin theorem.
3. *Gains from trade* : Static and dynamic, Terms of Trade, Barter and Monetary of Trade, Improvements and deterioration of Terms and Trade.
4. *Trade Policy* : Concept Free Trade and Protection Policy of Free Trade, Case for and against protection policy, argument for and against protection policy.
5. *International Economic Co-operation* :
  - (a) GATT-The General Agreement on Trade and Tariff (W.T.O.).
  - (b) UNCTAD-United Nations Conference of Trade and Development.
  - (c) ASSAN-Association of South EAST Asian Nations.
  - (d) SAARC-South Asian Association of Regional Co-operation.

**Second Term :**

6. *Balance of Trade and Balance of Payments* : Meaning, Current and Capital Accounts, Causes of disequilibrium in the Balance of payment, Measures for correcting disequilibrium.
7. *Foreign Exchange Rate* : Importance of Foreign Exchange Rate, Determination of Exchange Rate in a free market. Fixed and Flexible Exchange Rate Purchasing power parity theory.

**T.Y.B.A. / 231**

8. Exchange Control-Meaning. Objectives of Exchange Control, Methods of exchange control convertability of Indian Rupee on current and Capital Accounts.
9. *International Monetary Co-operation* :
  - (a) International Monetary Fund (I.M.F.) Origin, Objectives and working Achievements and Failures.
  - (b) International Development Association (I.D.A.) with reference to its role in development of LDCs.
  - (c) Asian Development Bank (ADB) Objectives and Role.

*References*

1. Lipsey : Introduction to positive Economics.
2. Samuelson : Economics.
3. P. T. Ellsworth : International Economics.
4. C. P. Kindleberger : International Economics.
5. Jagdish Bhagwat : Trade, Tariff and Growth.
6. M. L. Jhingan : International Economics.
7. O. S. Shrivastava : International Economics.
८. शां. श. मोडक : आंतरराष्ट्रीय अर्थशास्त्र.
९. भ. ग. भट : आंतरराष्ट्रीय अर्थशास्त्र.
१०. मुतालिक देसाई, भालेराव, जोशी : आंतरराष्ट्रीय अर्थशास्त्र.

**T.Y.B.A. / 232**

**Special Paper-IV**

**Quantitative Techniques**

1. Sets and Algebra of Sets, Logarithms and its laws of operation, use of logarithmic tables, sequences, progressions, series and summation of series.
2. Permutation and combinations, Binomial Theorem, Elementary coordinate geometry, Lines and points.
3. Determinants and Matrices : Properties of determinants and its use in solving simultaneous equations, Type of matrices and its algebra, Inverse of a matrix and linear equations.
4. Differential Calculus : Rules of differentiation, successive differentiation, maxima and minima.
5. Integral Calculus : Some standard results, Definite integral and its interpretation.
6. Linear Programming Formulation, Graphical method, Transportation problem, sequencing for 2 and 3 machines, Waiting methods, CPM and PERT techniques.

*Books Recommended*

1. Business Mathematics—Sancheti, Kapoor.
2. Economics, Mathematics—E.S.Monga.
3. Operations Research—Kirti Swaroop, Gupta, Manmohan.
4. Quantitative Techniques—Thumb L.C.



T.Y.B.A. / 233

**(23) Politics**

**Appendix**

**UNIVERSITY OF PUNE**

**T.Y.B.A. POLITICS : G 3**

**GOVERNMENT & POLITICS OF MAHARASHTRA**

The course is to be taught in the light of Political Process in Maharashtra.

1. Sanyukta Maharashtra Movement.
2. Governmental structures & their role and functions :
  - (a) Structures :
    - Legislature :
      - (i) Vidhan Sabha
      - (ii) Vidhan Parishad
      - (iii) Law-making process
      - (iv) Legislative committees
  - (b) Executive :
    - (i) Governor : Appointment, power, functions and role.
    - (ii) Council of Ministers : Chief Minister : Powers, functions, role formation of Council of Ministers.  
Cabinet : Powers, functions, role.
  - (c) Civil Service : M.P.S.C. : Composition, functions, role, role of Civil Service in Maharashtra.
  - (d) Judiciary :  
High Court : Composition : Power, Functions.

**T.Y.B.A. / 234**

**3. Local Self Government :**

(a) Evolution of Local-Self-Govt. in Maharashtra :

- (i) Pre-Independence period.
- (ii) Post-Independence period.  
Decentralization of powers.  
Balwantrai Mehta Committee.  
Vasant Rao Naik Committee.  
P. B. Patil Committee.  
73rd & 74th Amendment.

(b) Urban Local-self Institutions :

Formation, powers, functions, finances, problems  
evaluation :

- (i) Mahanagarपालिका.
- (ii) Nagarपालिशद.
- (iii) Cantonment Boards.
- (iv) Role and Importance of Urban Local-Self-Government.

(c) Rural Local-Self Government :

- (i) Zilla Parishad.
- (ii) Panchayat Samiti.
- (iii) Gram Panchayats.
- (iv) Gramsabha.

**4. Political Parties & Pressure-Groups :**

(a) National Parties : Origin, Organization ideology  
leadership & Electoral role :

- (i) Indian National Congress.
- (ii) Bharateeya Janata Party.
- (iii) Janata Dal.
- (iv) Communist Parties.
- (v) R.P.I.  
Social basis & Electoral Politics of Parties.

**T.Y.B.A. / 235**

- (b) Regional Parties :
  - (i) P.W.P.
  - (ii) Shivsena.
- (c) Pressure Groups :
  - (i) Trade Unions.
  - (ii) Peasant Organizations.
  - (iii) Dalit Movement.
  - (iv) Women Movement.
- 5. Politics of Co-Operative Movement :
  - (a) Evolution of Co-operatives movement.
  - (b) Political Influence of Co-operatives :
    - (i) Sugar Co-operative movement.
    - (ii) Co-operative Banks.
- 6. Emergence of Sub-regionalism :
  - (a) Nature of Sub-regionalism.
  - (b) Regional Imbalance & Regional Development Boards.
  - (c) Separate Vidarbha State.
  - (d) Marathwada Vikas Andolan.

**T.Y.B.A. / 236**

**T.Y.B.A. POLITICS : G 3**

**GOVERNMENT & POLITICS OF MAHARASHTRA**

**Question Bank**

1. Discuss the need for linguistic reorganization of Maharashtra.
2. Discuss the Post-independence development of Samyukta Maharashtra Movement.
3. How was Sanyukta Maharashtra formed ?  
Trace the development since the formation of States-Reorganization Commission.
4. Discuss the role of the Sanyukta Maharashtra Samiti in the formation of Sanyukta Maharashtra.

**Notes :**

Linguistic Provincialism in Maharashtra.

Language Politics in Maharashtra, State-Reorganization Commission.

Leadership of Samyukta Maharashtra Movement, Samyukta-Maharashtra Samiti, Bi-lingual state.

Maharashtra Karnataka Border Dispute.

Role of Indian National Congress in the formation of Samyukta Maharashtra.

5. Discuss, the formation, powers and functions of Vidhan Sabha of Maharashtra.
6. Discuss the role played by Vidhan-Sabha of Maharashtra in Law-making.
7. Discuss the role played by Vidhan-Parishad of Maharashtra in Law-making.
8. How is Vidhan-Parishad formed ? State the functions of Vidhan-Parishad.

*Notes :*

Bi-Cameralism in Maharashtra.

Necessity of Vidhan-Parishad.

Public Accounts Committee.

Speaker of Vidhan-Sabha.

Law-making process.

9. Discuss the role of the Governor of Maharashtra as the Chief-Executive of the State.
10. Discuss the various political factors involved in the appointment of the Chief-Minister.
11. Discuss the formation of Council of Ministers. What is the role played by the Chief-Minister as its Head ?
12. Discuss the powers, functions and the role of Chief-Minister of Maharashtra.
13. How is the Maharashtra Public Service Commission organized ? What are the functions of the M.P.S.C.?
14. How are the Judges of the High Court appointed ? Discuss the jurisdiction of the High-Court.

*Note :*

Governor, Maharashtra, Council of Ministers, Chief-Minister, Cabinet System in Maharashtra, M.P.C.C. Chief-Secretary, Advocate General.

15. Trace the evolution of Local-Self-Government in Maharashtra before independence.
16. What is democratic decentralization ? Discuss the role played by Vasantarao Naik Committee in the Process of Democratic Decentralization.
17. How is the Panchayati Raj Pattern organized in Maharashtra.
18. Discuss the formation and function of Zilla Parishads in Maharashtra.

**T.Y.B.A. / 238**

19. Trade the nature and role of Urban Local Government in Maharashtra.
20. Discuss the organizations and functions of Nagarparishads in Maharashtra.

**Notes :**

Balawantra Mehta Committee.  
Vasantao Naik Committee.  
P.B. Patil Committee.  
Democratic Decentralization.  
Impact of Urbanization in the Political process of Maharashtra.  
Taluka Panchayat Samiti.  
Gram-Panchayat.  
Gram-Sabha.  
73rd and 74th Amendments.  
Chief Executive Officer.  
Block Development Officer.  
Gramsevak.  
Commissioner of Municipal Corporation.  
Administrative Officer of Nagarpalika Cantonment Boards.  
District Planning and Development Council.  
State Election Commission.

21. Trade and evolution of Political Parties in Maharashtra before independence.
22. Bring out the evolution of multiparty system in Maharashtra.
23. Explain the origin organization and identity of Indian National Congress.
24. How for the B.J.P.-Shivsena Combine is an alternative to the Indian National Congress in Maharashtra.
25. Discuss the role of the opposition in Maharashtra.

**T.Y.B.A. / 239**

26. What is the role of Political pressure groups in the Political process of Maharashtra.
27. Explain the contribution of various political force in shaping the political process in Maharashtra.

**Notes :**

1. The Role of Indian National Congress in the Politics of Maharashtra.
2. Communist parties in Maharashtra.
3. Janata Dal in Maharashtra.
4. Republican Party.
5. People's and worker's Party.
6. Shiv Sena.
7. Peasant's Organizations.
8. Trade Unions in Maharashtra.
9. Women movements.
10. Dalit Movements.
28. Discuss the Political influence of the Co-operatives in Maharashtra.
29. Discuss the role of `Sugar Loby' in Maharashtra Politics.
30. The Socio-cultural organization-movements in Maharashtra are generally politically orient's comment.
31. Evaluate the role of Sugar-Co-operatives and co-operative Banks in strengthening the democratic process in Maharashtra.

**Note :**

- (1) Impact of Co-operatives in Maharashtra Politics.
- (2) Co-operative Banks & Politics in Maharashtra.

**T.Y.B.A. / 240**

33. Discuss the nature of Sub-regionalism in Maharashtra.
34. Explain the organizations, powers and functions of Regional Development Councils.
35. Trace the demand for a separate Vidarbha State and discuss its validity.
36. Linguistic & Economic forces are responsible for the emergence of sub-regionalism in Maharashtra.
37. Account for the rise of subregionalism in Maharashtra.
38. Evaluate subregional movements in Maharashtra.

**Notes :**

- (1) Separatist movement in Maharashtra.
- (2) Maha Vidarbha State.
- (3) Regional Development Councils.
- (4) Politics of sub-regionalism in Maharashtra.
- (5) Dandekar Committee Reports on Economic Imbalance in Maharashtra.

(ही प्रश्नावली मार्गदर्शक म्हणून तयार करण्यात आली आहे.  
प्रश्नावलीत बाहेरचेही प्रश्न येऊ शकतील.)



**T.Y.B.A. / 241**

**GENERAL PAPER III  
(From 1998-99)**

*Ancient Political Thought : (Eastern-Western)*

1. Kautilya
2. Bheeshma
3. Confucius
4. Plato
5. Aristotles
6. St. Augustine.

*Recommended Books*

1. Sabine G.H.: A Hisrory of Political Theory, IBH, Calcutta, 1973.
2. Sinclair T. A.: A History of Greek Political Theory, Routledge and M.K.Kegan Paul, London, 1966.
3. Prasad Beni : Theory and Government in Ancient India, Central Book Depot, Allahabad, 1968.
४. डोळे चा. य. : राजकीय विचारांचा इतिहास, काँटिनेंटल, पुणे, १९६९.
५. गर्दे, दि. का. : पाश्चिमात्य राजकीय विचारवंत, राणे प्रकाशन, पुणे, १९७८.

**Special Paper III**

*Introduction to Political Sociology.*

1. Nature and meaning of Political Sociology.
2. Political Systems : Elements and Functions.
3. Political Culture : Types and Factors influencing Political Culture.
4. Political Socialization : significance and Agencies of Socialization.

**T.Y.B.A. / 242**

5. Political Recruitment : Meaning, Method and Significance.
6. Political Communication.
7. Political participation : means and levels of participation.
8. Power, influence.

*Recommended Books*

1. Ali Ashraf and L.N. Sharma : Political Sociology, University, Hyderabad, 1983.
2. Joheri, J.C.: Comparative Politics, Sterling, New Delhi, 1976.
3. Rush M. and P. Althoff : An Introduction to Political Sociology, Flecher, London, 1972.
4. Varma, S.P.: Modern Political Theory, Vikas, New Delhi, 1977.
५. इनामदार, ना. र. आणि आलिम वकील : आधुनिक राजकीय विश्लेषण, शुभदा सारस्वत, पुणे, १९८४.
६. भोळे भास्कर लक्ष्मण : राजकीय विश्लेषण, पिंपळापूर प्रकाशन, नागपूर.

**Special Paper IV**

*Elements of Public Administration*

1. Nature and Scope of Public Administration.
  - (a) Role of Public Administration.
  - (b) New public Administration.
2. *Organization* :
  - (a) Chief Executive
  - (b) Staff and Linesagencies
  - (c) Department
  - (d) Public Corporation
  - (e) Commissions and Boards
3. *Management* :
  - (a) Leadership
  - (b) Policy Formation

**T.Y.B.A. / 243**

- (c) Decision-making
- (d) Planning
- (e) Co-ordination
- (f) Delegation
- (g) Communication and Supervision
- (h) Public Relation and publicity.

4. *Types of Public Administration :*

- (A) Personnel Administration
  - (a) Recruitment
  - (b) Employer-Employee Relationship
- (B) Financial Administration
  - (a) Delegated Legislation
  - (b) Administrative Tribunals.

*Recommended Books*

1. Avasthi A. and S.R.Maheshwari : Public Administration, Laxmi Narain Agarwal, Agra, 1976.
2. इनामदार, ना. र. : लोकप्रकाशन, साधना, पुणे.
3. दर्शनकार अर्जुनराव : लोकप्रकाशनाची मूलतत्त्वे, कैलास प्रकाशन, औरंगाबाद.
4. भोगले, शां. कृ. : लोकप्रशासन—सिद्धान्त आणि कार्यपद्धती, मोहिनीराज प्रकाशन, औरंगाबाद, १९७४.

T.Y.B.A. / 244

**(24) Sociology**

**पुणे विद्यापीठ**

**परिपत्रक क्र. १९४/१९९९**

**विषय : तृतीय वर्ष बी.ए. समाजशास्त्र जी-३ साठी संदर्भ ग्रंथ.**

विद्यापीठ अधिकार मंडळाच्या निर्णयानुसार सर्व संबंधितांना कळविण्यात येते की, तृतीय वर्ष बी.ए. समाजशास्त्र जी-३ साठी 'भारतीय सामाजिक संस्था'—प्रा. डॉ. सुमन पु. बेहेरे, विद्या प्रकाशन, नागपूर या पुस्तकाचा संदर्भ ग्रंथ म्हणून समावेश करण्यात आला आहे.

गणेशखिंड, पुणे-४११००७  
जावक क्र. सीबीएच/२८०३  
दिनांक : १६-६-१९९९

**ना. म. कदम**  
कुलसचिवांकरिता

**T.Y.B.A. / 245**

**(From June 1995)**

**INDIAN SOCIAL INSTITUTIONS**

**(General) (G-3)**

*No. of Lectures*

1. Hindu View of life	
(a) Ashramas	3
(b) Purushartha	3
(c) Teory of Karma and Re-birth	3
II Muslim social outlook :	
(a) Pre-Islamic situation in its place of origin	2
(b) Social outlook of Islam as introduced by Mohammed	2
(c) Phases of Islamination in India	1
III. Caste among Hindus :	
(a) Nature and definition	2
(b) Features	2
(c) Varna, Caste and Tribe	3
(d) Caste and sub-castes	1
(e) Functions and dysfunctions	4
(f) Dominant Caste and Sanskritization	2
(g) Present positions of caste	4
(h) Future of caste	1
IV. Stratification among Muslim :	
(a) Nature of hierarchical groups	3
(b) Comparison of hierarchical group with Hindu's Caste-system	4
	<hr/>
	Total 40
V. Marriage among Hindus	
(a) Its Sacramental Nature	4

**T.Y.B.A. / 246**

(b)	Eight traditional forms of Hindu Marriage and Polygamy	6
(c)	Age at Marriage	4
(d)	Selection of Marital Partners Endogamy, Exogamy, Hypogamy, Gotra, Sapinda and Pravara	5
(e)	Conditions for Divorce (Reference should be made to recent legal provisions)	2
VI.	Marriage among Muslims :	
(a)	Its contractual nature, Role of Wali-proposal acceptance and their consideration.	
(b)	Polygamy	
(c)	Dissolution of Muslim Marriage Conditions. Types—Khula, Lian, Faskh	
(d)	Dissertation of Muslim Marriage Act, 1939.	
VII.	Family :	
(a)	Hindu Joint Family—its structure functions and dysfunctions	6
(b)	Forces affeting Joint Family in recent-times	4
(c)	The family in the city	2
(d)	Future of Joint Family	2
VIII.	Status of Woman in India :	
(a)	Changing position of woman among Hindus and Muslims with special reference to work-opportunities, dowrey, divorce and related legal provisions	2
	<hr/>	
	Total	47

**T.Y.B.A. / 247**

*Prescribed Books*

1. Marriage and Family in India—Kapadia K.M.
2. India Women from Purdh to Modernity—R.R.Nanda
3. Caste and Social Stratification among Muslims—Imtias Ahmed
4. Hindu Social Organization—P.H.Prabhu
5. Caste in Modern India—M.N.Srinivas
6. Caste in India—J.H.Hutton
7. Caste, Class and Occupation—G.S.Gharye
8. Hindu Family in an Urban Setting—Ailean Rose
9. Modernization of India Tradition : Yogendra Singh, 1973, Publication Division, Delhi (Chapter II, IV and VII)
10. Muslim Law of Marriage, Divorce & Maintenance — M.A.Qureshi (Ch-VI, Pp. 185 to 263)
11. भारतातील सामाजिक संस्था - मा. शं. सोमण.

**Special Paper III**

**Techniques of Sociological Investigation (S-III)**

1. General overview of research project
2. General phases and principles of scientific procedure
3. Scientific attitude and plan of study
4. The use of Historical data in Social research
5. Field observation
6. Questionnaires and schedules as aids in Social exploration.
7. The interview as a tool in field research
8. The use of case data in social research
9. Basic statistical concepts and techniques
10. Different types of sampling
11. Some guiding considerations in the analysis of data and report writing.

**T.Y.B.A. / 248**

*Prescribed Books*

1. Poulain Young : Scientific Social Survey and research, Chapter 1,4,5,6,7,8,9,10,11, till page 300 and Section on mode pp. 472 to 499
2. Hans Raj : Methods of Social Research
3. प्रा. मा. शं. सोमण : सामाजिक संशोधनाची तंत्रे.

**Special Paper IV**

**Rural Society in India (S-IV)**

- I. (a) The need to study the rural society in India  
(b) Basic features of rural society - rural urban differences dichotomy and continuum
- II. Typology of Indian Village-Bases of classification of villages  
(a) Nature of Settlement  
(b) Socio-Economic System  
(c) Land Ecological Factors
- III. *Religion*  
Religion-characteristics of rural religion and role of temples, festivals and fairs
- IV. *Village Economy*  
(a) Place of agriculture and cottage industries  
(b) Traditional division of labour and economic interdependence-Jagmani system and Balutedari system  
(c) Pattern of land holding and its implications  
(d) Commercialization of agriculture and its impact on rural social structure



**T.Y.B.A. / 249**

V. *Village Polity*

- (a) Village autonomy-during ancient period; disintegration to traditional village panchayats during British period.
- (b) Democratic Decentralization in India Panchayat Raj-Balawantrao Mehta Committee  
Recommendations, objectives, functions and impact

VI. *Education*

- (a) Need for education in rural areas
- (b) Problems of education
- (c) Wastage and stagnation

VII. *Impact of Social Movements*

- (a) Bhoodan and gramdan movement—origin, objectives and failures
- (b) Co-operative movement—objectives, achievements, and failures

VIII. *Planned changes in Rural India*

- (a) Community Development programmes, Meaning, Objectives, Activities, Achievement and Failures
- (b) Integrated Rural Development programme
- (c) Land Reforms Eradication of System, Tenancy

IX. *Impact of Industrialization and Urbanization on Rural India*

- (a) Destruction—Traditional, Industries
- (b) Migration
- (c) Promotion of small scale industries in Rural India

**T.Y.B.A. / 250**

*Prescribed Books*

1. Desai A.R. : Rural Society
2. Srinivas M.N. : India's Villages
3. Srinivas M.N.: Caste in Modern India
4. Kamat A.R.: Progress of Education in Rural Maharashtra
5. Maheshwari S.R.: Rural Development in India
6. Dutta and Sundaram : India Economy
7. प्रा. पाटील चुनखडे : ग्रामीण समाजशास्त्र
8. प्रा. नाडगोडे : ग्रामीण समाजशास्त्र.

**OR**

**Industrial Sociology (S-IV)**

- I. Nature, scope, definitions and development of Industrial Sociology— (8)
- II. Development of Industry :
  - (a) Different stages—manorial fluid, domestic, Industrial and automation —8
  - (b) Industrialization and Family —2 (10)
- III. Formal and Informal Organizations :
  - (a) Line Organization —2
  - (b) Staff Organization —2
  - (c) Division of Labour effects —3
  - (d) Informal Organization and its role in industry— G.E.C. experiment—3 (10)
- IV. Roles in Industry :
  - (a) Worker—2
  - (b) Foreman—4
  - (c) Executive—2
  - (d) Strains in the of Worker, Foreman and Executive—4 (12)

---

Total : 40

**T.Y.B.A. / 251**

*Books Prescribed*

*(Reading Material)*

1. The Sociology of Industry —Parker, Prewn, Child and Smith
  2. Industrial Sociology—Miller and form
  3. Industrial Sociology—E.Schneider
  4. Fundamental of Industrial Sociology—P. Gisbert.  
*Industrial Sociology* (with a special reference to Indian)
- V. *Trade Union Movement in Indian :*
- (a) A brief Historical account—5
  - (b) Achievements—2
  - (c) Limitations—3
  - (d) Functions of Trade Union-1
  - (e) Types of Union Tactice—2 (13)
- VI. *Settlement of Disputes :*
- (a) Collective Bargaining—3
  - (b) Conciliation—1
  - (c) Arbitration and Adjudication—2
  - (d) Labour Courts and Industrial Tribunal—1 (7)

*Reading Material*

1. Labour Problems and Industrial Movement in India — V.V.Giri.
  2. Labour Welfare, Trade Unionism and Industrial relations, —S.D.Punekar, Deodhar and Sankaran
  3. Fundamentals of Industrial Sociology—Pascual Gisbert
- VII. *Social Security Measures :*
- (a) Definition, Nature and Development of Social Security Measures in India—2

**T.Y.B.A. / 252**

- (b) Various social security measures with special reference to
- (1) Workmen's Compensation Act, 1923
  - (2) Provident Fund Act, 1952
  - (3) Maternity Benefits 1961
  - (4) Welfare of Special Categories in Industry
    - (a) Female Labour
    - (b) Child Labour
- VIII. (a) Problems of worker in unorganized sector—2  
(b) Problems of women workers—2
- IX. (a) Rationalization, its need in India, problems of Rationalization and safeguards to facilitate Rationalization—4  
(b) Appropriate technology, meaning-arguments for and against-with special reference to India-3 and against-with special reference to India—3  
(c) Concentration of industries, Power causes and consequences, need for decentralisation. —3

---

Total : 40

*Books Prescribed*

(Reading Material) :

- (1) Labour Problems and Industrial Movement in India — V.V.Giri.
- (2) Labour Welfare, Trade Unionism and Industrial relations — S.D.Punekar, Deodhar and Sankaran.
- (3) Fundamentals of Industrial Sociology — Pascual Gisbert
- (4) औद्योगिक समाजशास्त्र - प्रा. डॉ. गुरुनाथ नाडगोंडे.

*Books Recommended*

E.R. Ramaswamy and Uma Ramaswami (1981) : Industry and Labour—An Introduction.

T.Y.B.A. / 253

तृतीय वर्ष साहित्य वर्गाच्या समाजशास्त्र विषयाच्या  
(सामान्य/विशेषस्तर) प्रश्नपत्रिकेचे स्वरूप/आराखडा

- (१) गुणपत्रिका एकूण १०० गुण.
- (२) वेळ ३ तास.
- (३) प्रत्येक पेपरला १०० गुण.
- (४) प्राश्निकांची पुढील सूचना लक्षात घेऊन पेपर तयार करणे.
- (५) सर्व प्रश्न सोडविणे आवश्यक.
- (६) सर्व प्रश्नांना समान गुण.

प्रश्न १:	निबंधवजा किंवा निबंधवजा	पहिला सत्राच्या अभ्यासक्रमावर	२० २०
प्रश्न २:	निबंधवजा किंवा निबंधवजा	दुसऱ्या सत्राच्या अभ्यासक्रमावर	२० २०
प्रश्न ३ :	खालीलपैकी कोणत्याही दोनची उत्तरे लिहा : (अ) दुसऱ्या सत्राच्या (ब) अभ्यासक्रमावर (क) प्रत्येकी दोन (ड) प्रश्न असतील		२०
प्रश्न ४ :	खालीलपैकी कोणत्याही चारवर टीपा लिहा : (अ) (ब) पहिल्या (क) सत्राचा (ड) अभ्यासक्रम (ई) (फ)		२०

**T.Y.B.A. / 254**

प्रश्न ५ : खालीलपैकी कोणत्याही चारवर टीपा लिहा : २०

(अ)	
(ब)	दुसऱ्या
(क)	सत्राचा
(ड)	अभ्यासक्रम
(ई)	
(फ)	

## (25) Geography

Paper/Course No. Gg 320 /5-3

Course Title : Physical Geography of India & Geography of Maharashtra.

- Objectives of Paper :
- (i) To acquaint the students with Geography of our nation.
  - (ii) To acquaint the students with Geography of our state
  - (iii) To make students aware of the magnitude and nature of problem & Prospectus of national & state level on geographical basis.
  - (iv) To help the students to understand recent trends in regional study

Topic 1	Submit 2	Learning points 3	Number of Periods 4
Location & Position of India.	a) Geographical location	(i) Geographical & relative location (ii) Relative location in South Asia (iii) Geographical location of Maharashtra	01
	b) Economic position	(i) Economic position of India in relation to globalization as producer & consumer Energy resources, industrial products, Cultural & other services	02

T.Y.B.A./255

1	2	3	4
	c) Geological structure of India	Salient features of geological structure of India	01
Physiography & Drainage	a) Main physiographic divisions	(i) The Northern mountains (ii) The North Indian Plains (iii) The Peninsular plateau (iv) The coastal lowlands & the island various landforms in each division (v) Physiographic divisions & account of landforms of Maharashtra.	10
	b) Drainage Pattern	Major river systems of India (i) East Flowing : Ganga Brahmaputra, Godavari, Krishna (ii) West Flowing : Sindhu, Tapi, Narmada (iii) Major river system of Maharashtra Godavari, Krishna, Vardha, Bhima, Tapi & Konkan river system.	08



1	2	3	4
Climate	Climate of India	(i) Various seasons & weather conditions associated with them. (ii) Mechanism of Monsoon (iii) Characteristics & importance of forecasting of Monsoon (iv) Major climate regions of India (v) Climate of Maharashtra	06
Soils	Soil types	(i) Major soil types in India & their distribution (ii) Major soil types in Maharashtra & their distribution (iii) Soil degradation & soil conservation	06
Forest	Forest types	(i) Major forest types in India & their distribution (ii) Major forest types in Maharashtra & their distribution (iii) Deforestation & conservation of forest (iv) Importance of forest resources in national economy.	06

### Section II/Geography of Maharashtra

Minerals and Power resources	Distribution & utilization of mineral & power resources.	(i) Iron-ore, Manganeses, Bauxite (ii) Coal, petroleum, natural gas (iii) Various power projects in Maharashtra (Hydro, thermal, atomic)	08
Agriculture	Distribution crops & production of major crops	(i) Rice, wheat, jawar, cotton, sugarcane (ii) Recent trends in agriculture, use of modern techniques, Horticulture, dairy farming, vegetables, agro-forestry (iii) Agricultural problems of Maharashtra	08
Industries	Major industries & development	(i) Industrial policies & development after independence (ii) Account of the development & distribution of Textile, Sugar, Chemical, Fertilizer & Engineering industries (iii) Development of Industrial belts in Maharashtra (iv) Problems related to industrial development	08

1	2	3	4
Population	Growth & distribution	(i) Growth & distribution of population (ii) Composition of Population (iii) Seasonal Migration (iv) Urbanization & its related problems	08
Regional Development	Development of different regions	(i) Western Maharashtra including Konkan (ii) Vidarbha (iii) Marathwada.	08

(Note : students should prepare 10 maps for each section)

*Reference Books*

- |                             |   |
|-----------------------------|---|
| 1) A. N. Agrawal            | India economy problems of development of planning |
| 2) B. Arunachalam           | Maharashtra                                       |
| 3) S. N. Chopra             | India An Area study                               |
| 4) C.P. Deshpande           | Geography of Maharashtra                          |
| 5) R. N. Dubey & B. S. Negi | Economic Geography of India                       |
| 6) Gopal Singh              | India   |
| 7) Govt. of Maharashtra     | Economic Development of Maharashtra               |
| 8) Govt. of Maharashtra     | Agricultural Direction Spread and Achievements.   |

- |     |  |  |
|-----|--|--|
| 9)  | C. E. Memoria                                  | Geography of India                         |
| 10) | NCAER  |  |
| 11) | R. C. Sharma                                   | India                                      |
| 12) | R. L. Singh                                    | Regional Geography of India                |
| 13) | CHK Spate                                      | India and Pakistan                         |
| 14) | Sharma & Coutinho                              | Economic and Commercial Geography of India |
| 15) | डॉ. टी. एन. घोलप                               | भारताचा प्राकृतिक भूगोल                    |
| 16) | डॉ. सी. टी. पवार, अडसूळ<br>पाटील, शिंदे, फुले. | भारताचा भूगोल                              |

**T.Y.B.A. Geography Paper / General**

- \* Paper / Course No. Gg.-310
- \* Paper / Course Title : Environmental Science
- \* Objectives of the Paper :
  - 1) To introduce the students inter- relationship of geography and environmental Science.
  - 2) To acquaint the student rudimentary principles of ecosystem, equilibrium and environmental balance.
  - 3) To address the students with the understanding of various global problem and their geography analysis.
  - 4) To know the students the knowledge of resource appraised and qualitative. use.

<b>Sr. No.</b>	<b>Topic 1</b>	<b>Sub-Topic 2</b>	<b>Learning points 3</b>	<b>Number of Periods 4</b>
1.	Introduction to Environmental Science	Nature and Scope	(a) Definition of Environmental (b) Nature and Scope (c) Dynamic Science (d) Interdisciplinary nature of environmental Science	04
2.	Ecosystem - I	Structure & functioning	(a) Definition & meaning of Ecosystem (b) Photosynthesis & Producers (c) Energy-transformation-Energetics (d) Food chain and food web (e) Ecological Niche (f) Nutrient cycles : Nitrogen, Oxygen and Carbon (g) Population Community, balanced ecosystem	12

T.Y.B.A./261

1	2	3	4
3.	Ecosystem-II Major ecosystem of the earth	(a) Terrestrial Ecosystem : Equatorial Tropical desert, mountain, ecosystem (b) Fresh water ecosystem–rivers and lakes (c) Ocean & Estuary ecosystem	08
4.	Man & Environment A) Man & Natural resources	(a) Environmental basis of population growth (b) Man and energy resource Renewal & Non- renewable (c) Man & water resources Utilization of surface & groundwater, methods of irrigation, problems due to over irrigation (d) Man & mineral resources : Explanation of mineral resources and related problems (e) Man and forest resources : environmental significance of forest deforestation & environmental degradation (f) Agriculture environment : A groconsystem concept of ecological efficiency, world food problem	12

1	2	3	4
	B) Development and Environment	(a) Industrialization & Urbanization—its impacts on Environment (b) Man induced landslides, floods, soil erosion, Earthquakes, desertification	04

**SECTION II**

5. Impact of Human activities on health and environment	A) Pollution-General	Pollution-definition & meaning, sources, effects, permissible limits	02
	B) Air Pollution	(a) Air Pollutants : Hydrocarbons, Sulphur oxides, Nitrogen Oxides, Carbon Monoxide Particulate matter- Lead, Zinc & Iron permissible limits (b) Sources of air pollution meteorology of air pollution (c) Acid rain. (d) Domestic air pollution (e) Effect of airpollution on plants, animals, human health & materials.	08

(C)	Water Pollution	<ul style="list-style-type: none"> <li>(a) Water pollution : surface and ground water pollution.</li> <li>(b) Pollutants : Chemical, biological and radio active.</li> <li>(c) Source of Pollution : Industrial domestic, agricultural.</li> <li>(d) Adverse effects on soil, plants, animals &amp; human health.</li> </ul>	08
(D)	Noise Pollution	<ul style="list-style-type: none"> <li>(a) Definition, measurement &amp; source of noise pollution, permissible limits.</li> <li>(b) Effect of noise pollution on human health.</li> </ul>	04
(E)	Land and Soil Pollution	<ul style="list-style-type: none"> <li>(a) Solid hazardous &amp; toxic waste.</li> <li>(b) Origin &amp; nature of wastes, chemical radioactive &amp; soild waste.</li> <li>(c) Effect of waste, disposal on human health.</li> <li>(d) Bio-degradable &amp; non-biodegradable waste.</li> </ul>	04



1	2	3	4
Pollution control	Methods of check Pollution.	Major techniques in water air and noise pollution control.	06
Environmental Issues and assessment	(A) Environmental Impact Assessment (ELA). (B) Important global and regional environmental problems	(a) Meaning & Scope of EIA. (b) Methodology adopted in the EIA. (a) Global warning & Green house effect. (b) Destruction of ozone layer. (c) Nuclear disasters & their impact. (d) Bhopal Gas disaster. (e) Gang pollution.	08

T.Y.B.A./265

*Books*

1. Kupchell C. E., Hyland M. C. (1986) : Environmental Science, Living within the system, Allyn and Bacon Inc.
2. Turk J. (1985) : Introduction to Environmental Studies, Saunders College, PUB. Holl-Sawaders, Japan.

1	2	3	4
3.	Anderson J. M. (1983) : Ecology for Environmental Sciences, Edward Arnold.		
4.	Slrahler A. N. and Slrahler A. P. (1977) : Geography and Mari's Environment : John Wiley and Sons, New York.		
5.	Balleimus P. : Environment and Development.		
6.	Encyclopedias of Environment Science Macgraw Hill Pub.		
7.	Rao P.L.D. (1986) : Pollution Control Hand book : Utility, Publication Ltd., Secunderabad.		
8.	Bernard J. Nobel (1987) : Environmental Science Prentice Hall.		
9.	Andrew Goudie : The Human Impact — On natural environment, Pub. Basil Black Woll-Lel.		
10.	W. R. Ahirrao, S. S. Alizad, C. S. Dhapte, Environment Science (1995) : Nirali Prakashan, Jogeshwary Chowk, Pune.		
11.	T. P. Patil, M. M. Phule, C. T. Pawar, S. B. Shinde, R. S. Adsul : Environmental, Supreme Prakashan, Kolhapur		

**T.Y.B.A. G 310 : Geography of Tourism (General)**

**SECTION I**

<b>Units</b>	<b>Sub-Units</b>	<b>Content Areas</b>
Nature of Scope	(a) Nature	(1) Definition of Tourists and Tourism. (2) Role of Geography in Tourism. (3) Importance of Tourism.

1	2	3	4
	(b) Scope & Extent	(1) Tourism and Travel as basic needs of mankind. (2) Tourism as an economic activity. (3) Tourism and national integrity.	
	(c) History of Tourism	(1) Concept of recreation & Leisure. (2) Components-location, Accommodation, Transportation. (3) Elements-Accessibility, Ammenities.	
Factors affecting Tourism	(a) Physical	(1) Relief-Mountain, Lakes, Beaches, Coasts, Water fall, Hot springs. (2) Climate-Hill station, Health resorts. (3) Vegetation-National parks and Sancturries.	
	(b) Cultural	(1) Religions and Pilgrimage centres. (2) Historical monuments. (3) Centres of tribal culture folk and festival. (4) Temples. (5) Sports centres. (6) Dams and reservoirs. (7) Major industrial Town & Planned cities. (Example related to India).	

1	2	3	4
Basis of classification of tourists	(a) Nationality	(1) International. (2) Domestic.	
	(b) Time of Travel	(3) Long haul, short haul, holiday tourists, day trippers.	
	(c) Travel Distance	(1) Global, continental, Regional and local.	
	(d) Number of Tourists	(1) Individual and groups.	
	(e) Purpose of Travel	(1) Recreation, Cultural activities, Health, Sports, Business Conventions.	
Role of Transportation in Tourism	(a) Mode of Transportation.	(1) Air, Rail, Road Water Ways.	
	(b) Factors influencing choice of Transport.	(1) Type of tourist, Availability of means of Transport.	
		(2) Cost of transport, Travel Time. (3) Efficiency levels, (Frequency, carrying capacity) incentive aforesaid.	
(c) Agencies and Guides	(1) Govt. Organizations, Private agencies. (2) Role of guides in tourism. (3) Training Programme of Guides. (4) Licensing and recognition & guides. (5) Languages known and level of proficiency.		

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Role of Accommodation in Tourism.	(a) Accommodation Types	(1) Hotels, Motels, innc., Sraies, Dharmashalas, (2) Govt. Accommodation, Tourist homes. (3) Youth Hostels, Cottages, Tents, Caravans. (4) Rail yatri Bhavan, Houses boats. (5) Private accommodations. Unrecognized accommodations.	40

## SECTION II

Impact of	(a) Economic impact	1. Tourism and economic activity (a) Effect on foreign exchange. (b) Employment generation. (c) New avenues for export of craft and other materials.  2. Invisible export (a) Boost to trade and commerce. (b) Emergence of multinational co-operations.	
-----------	---------------------	---	--

1	2	3	4
		3. Concepts of economic multipliers. (a) Increase in trading activities. (b) Increase in Land values. (c) Increase in Govt. revenues.	
		4. Impact of Tourism on free economy.	
		5. Economic impact of Tourism on economy of (a) Jammu & Kashmir. (b) Goa.	
	(b) Physical and Environmental impacts	1. Tourism and Environment conflicting and symbiotic relationship. 2. Tourism development & intervention in different ecosystems such as Vegetation, water, soil & Land, wild life	
	(c) Social impacts	1. New colonialism 2. Crime and Gambling activities 3. Religion 4. Language 5. Health	
	(d) Cultural change	1. Tourism and cultural change 2. Traditional arts and its deterioration 3. Effects of foreign elements	

1	2	3	4
Development and Planning	(a) Nature of Tourist Planning	<ol style="list-style-type: none"> <li>1. Evaluation of existing position</li> <li>2. Formation of Policies</li> <li>3. Considerations of obstacles</li> <li>4. Developmental strategies</li> <li>5. Govt. Policies</li> <li>6. Tourist facilities-Govt. and Private facilities</li> <li>7. Elaborate action plan.</li> </ol>	6
	(b) Levels of Planning	<ol style="list-style-type: none"> <li>1. Planning for national level</li> <li>2. Regional and Local level</li> </ol>	
	(c) Tourism Planning in India	Explanation should be given with Indian examples for all subunits a,b,c.	
Evaluation of Potentials & Tourism	(a) Assessment of regions ability to attract tourists	<ol style="list-style-type: none"> <li>1. Physical</li> <li>2. Cultural and</li> <li>3. Social factors.</li> </ol>	
	(b) Methodology for assessing tourist potential	<ol style="list-style-type: none"> <li>(i) Regional Survey</li> <li>(ii) Resource base survey</li> <li>(iii) Terrain evaluation</li> <li>(iv) Survey on folk and cultural activities.</li> </ol>	

1	2	3	4
Case studies of	(a) Hill stations	Mahabaleshwar and Panchmadi (MP)	
	(b) Beach Resorts	Ganpati Pule and Kalangut (Goa)	
Major Tourist Centres	(c) Historical centres	Rigarh, Agra	
	(d) Caves and Temples	Ajanta and Ellora, Humpy	
	(e) Religious Centres	Pandharpur, Tirupati	
	(f) National Park	Melghat, Kaziranga	
	(g) Dams	Bhandaradara, Bhakra.	

#### **REFERENCE BOOKS**

1. A Geography of Tourism : Robinson H. (1996)
2. Tourism Development, Principles and Practices : Bhatia A.K., Sterling Publisher Ltd., New Delhi
3. Geography of Tourism and Recreation : S.N.Singh (1985)
4. Tourism Today : A Geographical Analysis : Douglas Pearce (1987)
5. Tourism : Economic Physical & Social Impact : Mathiseson A. & Wall C, Logman, U.K.
6. India : A Tourist Paradise : Manoj Das.
7. Tourism Today : An Indian Perspectives : Maneet Kumar



1	2	3	4
8.	Geography of Travel and Tourism	:	Hudman L.E.
9.	Successful Tourism Management	:	Seth P.N. (1985) Sterling Publisher Ltd., New Delhi.
10.	Tourism Analysis	:	Smith S.L.J.
11.	Tourism in India	:	Gupta V.K.
12.	Dynamics of Tourism	:	Kaul R.N., Sterline Publisher Ltd.
13.	Geography of Tourism	:	S.B. Shinde, Phadke Prakashan, Kolhapur 2

**T.Y.B.A./Geography-Practical course (Six period per Batch each Batch 12 students)  
Paper Course No-Gg 301/S-4**

Title of the Paper-	Map Reading & Statistical methods
Objectives of paper-	(i) To enable the students with techniques maps & their geographical interpretation. (ii) To acquaint the students statistical methods in geography & its utility in the interpretation of geographical phenomena.

Sr. No.	Unit	Submit	Learning points	Number of Periods
1.	S.O.I. Toposheets	(a) Representation of relief, slope & contour features	(i) Qualitative & Quantitative methods. (ii) Methods of slope expression Types of slope-Even, Uneven, Concave, Convex, gentle, steep, terraced (iii) Contour features such as hill, ridge spur, valley, escarpment, waterfall (cliff), plateau, pass, saddle	
		(b) Arrangement of Sheets on the map of India	(i) Index Number-Its relation with scale, extent of area, contour interval (ii) Types of toposheets Grid reference (six figure)	
		(c) Marginal information	(i) Meaning and description of marginal information (ii) Study and drawing of signs & symbols uses in S.O.I. Toposheets	

1	2	3	4
	(d) Map Interpretation	(i) Interpretation of three S.O.I. Toposheets each from (a) Plain (b) plateau, (c) mountainous regions	
	(e) Profiles	(i) Drawing a longitudinal and transverse profile with the help of contourmaps and Toposheets (ii) Intervisibility.	
2. I.M.D.	(a) Weather Weather Charts Instruments		Drawing of instruments, their principal structure, working & use. (i) Maximum and minimum thermometers. (ii) Thermograph. (iii) Wet-bulb and drybulb thermometer. (iv) Hygrometer (v) Aneroid Barometer. (vi) Barograph (vii) Rain Gauge. (viii) Wind vane & cup anemometer. (ix) Stevenson's screen.

1	2	3	4
(B) Isobasic Patterns	(i) Cyclone. (ii) Anticyclone depression. (iii) Trough of low pressure. (iv) Wedge. (v) Col. (vi) Secondary cyclone / depression.		02
(C) Signs & symbols	(i) Study and drawing of signs and symbols used in the I.M.D. weather charts.		
(D) Weather charts Interpretation	Study and interpretation of I.M.D. weather charts including departure of temperature from normal. (i) Monsoon season. (ii) Retreat of monsoon. (iii) Winter season. (iv) Summer season.		

T.Y.B.A. / 276

(Note : Each batch will record any weather phenomena at least for a week and note down their observation as a part of practical work in the Journal.)

1	2	3	4
Statistical Methods.	(A) Frequency Distribution.	(i) Histogram. (ii) Frequency Polygon & frequency curve. (iii) Give curve-less than basis, more than basis.	
	(B) Measures of Central Tendency	(i) Various measures of central tendency. their uses, comparison. (ii) Mean, Median, Mode (At least 3 examples of each using only grouped data).	
	(C) Population & Sampling.	(i) Meaning & types of population. (ii) Sampling, methods of sampling (Random, systematic, stratified).	
	(D) Measures of Dispersion.	(i) Variance, (ii) Standard deviation Coefficient of variation.	

1	2	3	4
	(E) Correlation	<ul style="list-style-type: none"> <li>(i) Concept of correlation-meaning types coefficient of correlation.</li> <li>(ii) Person's coefficient of correlation.</li> <li>(iii) Rank order correlation coefficient of spearman (At least 2 examples of each, with interpretation).</li> <li>(iv) Simple Regression.</li> <li>(v) Standard error (hi-squara Test).</li> <li>(vi) Chi-Square Test.</li> </ul>	
Field excursion/ Tour Projectwork.	Long tour upto 15 days & short tour upto 7 days applicable all over India.	Excursion report should be written minimum of 20 pages & it should include maps, sketches graphs, Photographs & to be submitted at the time of practical examination. Maintenance of journal is compulsory. Those students who will fail to do so will not be allowed to appear for the practical, examination. Produce If student fails to produce journal at the time of practical examination. Principal & Head of Geography Department should certify that the student had maintained the journal.	

- 
- (a) Practical should be done properly and journal should be maintained. Journal must be certified by Head of the Department. Candidate without journal, should not be allowed for practical examination.
- 

Weightage for above topics in the question paper shall be as follows :

<b>Topic</b>	<b>Marks</b>
Toposheets	20
Weather maps	20
Statistical methods	30
Field excursion or Tour report or Project work	20
Journal & Oral	10
<b>Total Marks</b>	<b>100</b>

*BOOKS*

1. Dr. Jog & Dr. Saptarshi — Sankhyiki Bhugol
2. King — Quantitative Geography
3. Miller — Skin of the Earth
4. Singh & Kanaujia — Map work & Practical Geography
5. Wilkinson & Monshourse — Maps & Diagrams.
6. W. R. Shirrao, S. S. Aizad, C. S. Dhapte — Nakashashastriya Tantra and Sankhyiki  
Bhugol  
T. M. Varat, B. B. Pawar
7. Dr. Arjun Kumbhar — Practical Geography



**T.Y.B.A. / 281**

## **(26) Linguistics**

### **Introduction to Applied Linguistics**

1. Language learnig : difference between Child's acquisition of one of more language and an adult's informal or formal learning of language in respect of motivation and aptitude.
2. Language teaching : Phases, preparation, presentation, revision testing, remedial and follow up work, self-instruction and classroom instruction.
3. The four skills and their interrelation : Listening, speaking, reading and writing.
4. Translation : Definition and general types. Translation equivalent. Meaning and total translation, transference.
5. Introduction to the structure of Devanagari.

#### *Books Recommended*

Lado, R. : Language teaching.

Bannett, W. A. : Aspect of language teaching.

Catford, J. C. : Linguistics theory and translation.

Topics 1 and 2 of the above syllabus are prescribed for the Term-End Examinations.

## **(27) Defence and Strategic Studies**

**(Effect from June 1996)**

*Note :* (1) The general content of all the courses will be historical descriptive in nature.

(2) The course DS-1 Modern Warfare, DS-4 India's National Security, DS-5 Geopolitics and Military Geography introduce concept relevantly to the understanding of the discipline level of teaching these course is to be limited introduction of these concepts and understanding of their's and meaning.

(3) The courses DS-6 Defence Economics, DS-13 International Law, DS-15 Military Sociology and Psychology are introduced nature. They are expected to introduce Students to specialised area.

### **G-3 : DEFENCE ORGANISATION IN INDIA**

#### **SECTION I**

1. *Principles of Defence Organization.*
2. *Reconstruction of Indian Armed Forces after 1947.*
  - (a) Reconstruction of the Army.
  - (b) Reconstruction of the Navy.
  - (c) Reconstruction of the Air Force.
3. *Higher Defence Organization in India :*
  - (a) Power of the President in relation to the Armed Forces.
  - (b) Parliament and Armed Forces.
  - (c) Defence Committee of the Cabinet/Political Affair Committee.
  - (d) Ministry of Defence-Organization and Functions.
  - (e) National Defence/Council or Security.

**T.Y.B.A. / 283**

4. *Defence Mechanism of the Indian Armed Forces :*
  - (a) *Chiefs of Staff Committee.*
  - (b) *Organization of Army Headquarters, Naval Headquarters and Air Headquarters.*
  - (c) *Organization of Army Commands.*
  - (d) *Coast Guard.*
5. *Intelligence :*
  - (a) *Introduction and History of Intelligence.*
  - (b) *Role of scope.*
  - (c) *Devices for collecting intelligence.*
  - (d) *Counter Intelligence.*
  - (e) *Indian Intelligence Organization.*

**SECTION II**

6. *Infantry :*
  - (a) *Characteristics, Role and Limitations.*
  - (b) *Infantry Division and Battalion Organization.*
7. *Armoured Corps and Artillery :* *Characteristics, Role and Limitations.*
8. *Engineers and signals :* *Characteristics, Role and Limitations.*
9. *Logistic Services :* *Characteristics, Role and Limitations, ASC, AOC, AMC, EME.*
10. *Indian Navy :* *Characteristics, Role and Limitations. Various types of battleship in I.N. Roll of Aircraft carrier.*
11. *Indian Air-Force :* *Characteristics, Role and Limitations. Various types of Aircrafts in the I.A.F.*

*Selected Reading*

1. Venkateswarm A. L. : *Defence Organization in India.*
2. Stephan Colhen : *Indian Army - A sketch of its History and organization.*

**T.Y.B.A. / 284**

3. Nagendra Singh : Defence Mechanism of Modern State.
4. Ministry of Defence : Annual Report.
5. Lt. Col. Abhyankar M. G. : Defence Principles and Organization.

**OR**

**G-3 : EVOLUTION OF STRATEGIC THOUGHT**

**SECTION I**

- A. *The Classical Thought of 19th Century :*
  1. Clausewitz-on war-and its relationship with Politics-Strategy-Tactics.
  2. Jomini-Concept of Mass, Army Strategy-Strategy-Tactics and Logistics.
- B. *From 19th Century to First World War :*
  3. Marx-Military concept of social revolutionaries.
  4. Moltke-The Prusian-German school of strategic thought.
  5. Du picq-French school of strategic thought.
  6. Foch-Principles of war, the French school.

**SECTION II**

- C. *From First of Second World War :*
  7. Churchill-the Emergence of Civilian-Civic Military Relation.
  8. Ludendorf-The German concept of total War.
  9. Lenin Stalin-Soviets concepts of war.
  10. Liddle Hart-The British concept of warfare-Total War-Deterrence.

**T.Y.B.A. / 285**

11. J.F.C. Fuller-Concept of mobile warfare, Advent of Tank and decline of French warfare-Science and Conduct of war.
12. A. T. Mahan-Theory of sea power.
13. Douhat-Theories of Air warfare.
14. Hitler-The Nazi concept of war-Blitzkrieg.

D. *Second War to Date :*

15. Mao Tse Tung-Chinese concept of war-Strategy and concept of Guerilla Warfare-Concept of Urban Guerilla Warfare.
16. The Guevara-Concept of Guerilla Warfare.
17. Concept of conventional deterrence and Nuclear deterrance after II World War.

*Selected Readings*

1. Adie W.A.C. : Chinese strategic Thinking under Mao Tse Tung.
2. Alperovit Z. G. : Atomic Diplomacy : Hiroshima and Potsdam.
3. Briend, Bend : Liddle Hart : A study of his Military Thought.
4. Broud L. : Winston Churchil : The Years of Achievements.
5. Brodie B. :
  - (1) Escation and the Nuclear option.
  - (2) A Guide to Naval Strategy.
  - (3) Strategy in the Missile Age.
6. Brown N. : Strategic Mobility.
7. Clausewitz : On War.
8. Earle E. M. : Makers of Modern Strategy.
9. Fuller J.F.C. : Conduct of War.
10. Tedder L. : Air Power in War.

**T.Y.B.A. / 286**

*Recommended Book*

Dr. Shrikant Paranjpe : Samairk Shatra-Continental Prakashan,  
Pune.

**Special Paper III**

**S-3 DEFENCE PRODUCTION IN INAIA**

**SECTION I**

1. *Rationale for arms production in the third World*
  - (a) Political economy of Defence expenditure.
  - (b) Economic inference.
2. *Defence and Development*
  - (a) Concept of development.
  - (b) Nature of the debate.
3. *Government Policies regarding Defence Production in India*
  - (a) Industrial Policy resolution of the Government.
  - (b) Growth in Defence Industry after 1962.
  - (c) Problem of foreign collaboration and problem of self- sufficiency.

**SECTION II**

4. *Structure of Defence Production in India*
  - (a) Department of Defence production in the ministry and defence (Structure and function).
  - (b) Ordnance Factories : Objectives, Product ranges, Highlights in the workings.
  - (c) Defence Public sector undertakings : Basic information about important undertakings.
5. *Defence Science and Technology*
  - (a) DDRDO.
  - (b) Problem of Idigenisation.
6. Role of Private Sector in Defence in India.

**T.Y.B.A. / 287**

*Books*

- (1) Ron Mathews : Defence Production in India (ABC, New Delhi).
- (2) Military year Book.

**S-2 Industrial Security—PAPER II**

**PART I**

1. Security-Government Policy and Law, Fundamental right, security of personal property, right of arrests and prevention, right of searching.

Penal Offences : (i) Cognizable,  
(ii) Non-Cognizable.

Bailable and Non-bailable crime (offence), Illegal trespassing, housebreaking, Crowd or riots, arrests, Bombay Police Act of 1951, sections 122 to 124.

2. Industrial Security and Crimes-Theft, Sabotage, Infiltration, Strike, Procession, Terrorism etc.

3. Fire Preventive Measures-Chemical equipments, Soda, Acid, Fire fighting equipment, foantile carbon dioxide equipments, dry chemical equipment, Bromo-cloro defuro mithen and other equipment-Water tenders, Fire trailor engine, fire preventive intimation system (automatic system) etc. and its maintenance.

4. Security Organization-Chief of organization, Chief of the Security officer, Security officer, Assistant security officer, Inspector of security, Different sectional (departmental) officers, (Goods Section, Crime investigating section, Secret section, Fire fighting department etc.).

**PART II**

5. Training of Security-General security, Fire preventing measures, Production of intelligence gathering equipment-its history and working, Model studying orders, Accidents and relief measures, Material security, Rights, Duties and Discipline etc.

**T.Y.B.A. / 288**

6. Security Establishment-Elasticity in discipline, leadership, hospitality, report, foresight, uniform, controlling the unexpected situation.

7. Accidents-Chemobyls and Bhopal-Lapses in security measures and its short term and long term effects.

8. Pollution Control-Personal and general disposal of sewages and litters, Boiler Chimney : Noticing of Danger, Measures etc.

*Books*

1. Fundamentals in the Industrial Security Management, Madras.
2. औद्योगिक सुरक्षा : बाळ वाडेकर, पुणे.

**S-3 MILITARY SOCIOLOGY AND PSYCHOLOGY**

**SECTION I**

1. Social Institution and their Organization and the armed-force-Social base military power, Social background of defence personnel, Social changes and change in character and composition of the armed forces.

2. The Military Organization, Hierachy, Co-ordination discipline, motivation moral in the armed forces.

3. Sociology of war, social causes of war, social obligation for war, Adjustment and emotional problems during the war, social aspect of victory and defeat.

4. Post war social problems, problems of large scale disabndment of personnel, their rehabilitation and social adjustment of servicemen releases after war, Effects of war on society.

5. Military-Civil relationship. The soldier and the society, soldier and critical system, soldier and the productive system, image of the soldier in different societies.



**SECTION II**

6. *Psychology and Armed Forces (General)*
  - (a) Dimensions of behaviour, motivational effective and competitive process. Relevance of psychology in difference problems.
  - (b) Personnel selection and classification for defence services, use of intelligence test, group testing, procedures, elementary personality testing.
7. Application of principle of Psychology in military training, motivation, learning, transfer of training, group and individual training.
8. *Group Dynamic in Military life in-*
  - (a) Group structure, types and their functional formation of social norms, groups problems solving.
  - (b) Leadership-Nature of leadership function of leader, type of leadership training.
  - (c) Morale-Nature, determinants and techniques of boosting moral, its significance in defence.
9. *Psychological Warfare-*
  - (a) Natural types, organization and techniques of military propoganda.
  - (b) Structure, Theories and Techniques of coercive persuasion determinant of brain washing effects.
  - (c) Psychology of rumour-Nature techniques and its merits and demerits impact on war and society.
10. Mental Disorders of War (Abnormalities)
  - (a) Mental Health of Soldier in war.
  - (b) Psychological disorders and emotional strains imposed by war-corversion Hysteria, Anxiety and war neunosis.

**T.Y.B.A. / 290**

*Reading*

1. Borgadus : Macmillan, New York.
2. Grille : Race, Class and Military.
3. Johnson John (ed.) : The Role of Military in Under-developed Countries.
4. Stainless Androse : Military Organization and Society Jewaki.
5. Nichek Fort R. D. : Men in Uniform, Military Manpower in Modern Industrial Society.
6. Morries Janowfts : Sociology and the Military Establishment.
7. Goldman : The Social Psychology of Military Science.
8. Leng : Military institutions and the Sociology of War.
9. L. G. Boring : Psychology for the Armed Services.
10. R. R. Grinker : Men Under Stress.

**Special Paper IV**

**S-4 STUDY OF WAR & PEACE**

**(Paper Focuses on basic concept and their meanings  
in a descriptive manner)**

**SECTION I**

1. *War* :
  - (a) Meaning and definition, (b) Classification,
  - (c) Causes, (d) Principles, (e) Consequences.
2. *Political Aspects of War* :
  - (a) War and Politics, (b) Balance and Power,
  - (c) Collective Security, (d) Cold War,
  - (e) Disarmament and Arms Control.

**T.Y.B.A. / 291**

3. *Economic Aspects of War :*
  - (a) War as an Economic Problems,
  - (b) Defence and Development,
  - (c) Mobilization of resources,
  - (d) Economic Warfare,
  - (e) Post War Economy and Reconstruction.

**SECTION II**

4. *Modern Warfare :*
  - (a) Nuclear Warfare and the laws of War,
  - (b) Conventional deterence in nuclear age,
  - (c) Guerilla and irregular forces,
  - (d) Mechanization of Warfare,
  - (e) New military Technologies,
  - (f) Changing nature of war from limited to total.
5. *Concept of Peace and its structure :*
  - (a) Introduction,
  - (b) Settlement of disputes,
  - (c) Legal controls of armed conflict,
  - (d) Modern development and the law of neutrality,
  - (e) Role of UNO in peace keeping.
6. *World Order Idologies :*
  - (a) Political,
  - (b) Social and Political,
  - (c) Recent Trends.

*Readings*

1. Agrawal, A. N. : Economic Mobilization for National Defence.
2. Barnard, L. L. : War and its Causes.
3. Baileys, S. D. : Prohibition and Restraints in War.
4. Baileys, G. : Causes of War.
5. Brierly, J. C. : Law of Nations—An Introduction of the Law of Peace.
6. Buchan, A : War in Modern Society.
7. Palit, D. K. : War in Deterrent Age.

**T.Y.B.A. / 292**

**OR**

**S-4 INDIAN ART OF WARFARE**

**SECTION I**

1. Meaning, scope and sources of military history.
2. Military system in Ancient India,
  - (a) Vedic period, (b) Ramayana.
  - (c) Mahabharata, (d) Indus valley civilization, art of war, organization, weapons etc.
3. Indo-Greek art of war with special reference to the battle of Jhelum (326 B.C.)-Greek military organization, art of war, weapons etc.
4. Kautilya's philosophy of war, military organization weapons, forts, pattern of warfare, interstate relations, espionage, concept of defence and security.
5. Military system of the Gupta Empire.

**SECTION II**

6. Rajput military system and art of warfare.
7. Turk military system with special reference to the battle of smooth and Terrain.
8. Military system warfare and reforms during the Sultanate period (1206 to 1526 A.D.).
9. Mughal Military system, organization training weapon system, art of warfare, battle of Panipat (1526 A.D.), battle of Haldighat (1576 A.D.).
10. Southern Indian Empires :
  - (i) Cholas.
  - (ii) Vijaynagar.

*Notes* : The course focuses on the evolution of the system of warfare, strategy and tactics.

**T.Y.B.A. / 293**

*Selected Readings*

1. B. K. Mujumdar : Military System in Ancient india.
2. J.F.C. Fuller : Generalship of Alexander-the Great.
3. K. P. Kangley : Kautilya Arthshastra.
4. J. N. Sarkar : Military History of India.
5. Erskin : Memories of Babar.
6. Willam Irvin : Army of the Indian Mughals.
7. S. N. Sen : The Military System of Marathas.
8. F. S. Bajwa : The Military System of Sikh.
9. Fortseque : History of British Army.
10. Chaudhari and Mandhare : Bharatiya Sainya Itihas.

**OR**

**S-4 INTERNATIONAL LAW (OPTIONAL)**

**SECTION I**

1. Nature of International Law.
2. Sources of International Law.
3. Subjects of International Law.
4. Human Rights.
5. Legal Control of international Conflict under united Nations charter :
  - (a) Collective Security.
  - (b) Peace Keeping Forces.

**SECTION II**

6. Attempt to prohibit war by
  - (a) UN Security Council.
  - (b) UN General Assembly.
  - (c) International Court of Justice.

**T.Y.B.A. / 294**

7. International Law related to Law of War.  
Hague Connections and Geneva Conventions.
8. War Crimes : History and definition.
9. Neutrality :
  - (a) Relation between belligerent and neutrals.
  - (b) Blockade.
  - (c) Contraband.

*Books Recommended*

1. Agarwala, S. K. (Ed.) : Essays on the Law of Treaties (Bombay : Orient Longmans, 1973).
2. Agarwala S. K. (Ed.) : New Horizons of International Law Development Countries (Bombay : N. N. Tripathi, 1983).
3. Anand R. P. : New States and International Law (New Delhi: Vikas, 1972).
4. Anand R. P. : Studies in International Adjudication (New Delhi : Vikas, 1963).

**(28) History of Civilization**  
**(1815-1945)**

1. Struggle between Liberation and conservation :
  - (a) Vienna Settlement, Metternich system and Concept of Europe.
  - (b) Spread of revolutionary ideas in Europe during the period 1815-1848.
2. Industrial Revolution in Europe-causes and impact.
3. The rise of socialist thought and labour movement-Early socialists and scientific socialism of Karl Marx.
4. Growth of Nationalism and democracy-Liberal Ideas of Adam Smith, Bentham and Mill-Growth of democracy in England, Civil War in the U.S.A. in Italy and Germany.
5. New Imperialism-Spread of European colonics in Asia and Africa-Economic implications of New Imperialism in Asia and Africa.
6. The Socio-Economic base of the Russian revolutions of 1917 and its impact.
7. League of Nations-Experiment in International Co-operation.
8. Socio-Economic conditions during the Inter-War-Period (1919 to 1939).
9. Rise and Growth of Nationalism in Afro-Asian Countries.
10. Growth of Literature, Science and Technology.

**T.Y.B.A. / 296**

*Books for study*

1. Grant and Temporley—Europe in 19th and 20th Centuries.
2. Langsham—World since 1919.
३. वैद्य सुमन—आधुनिक जग.
४. कुलकर्णी, अ. रा., फडके—आधुनिक युरोप.
५. आठवले, सदाशिव—आधुनिक युरोप.
६. गुप्ते, र. श.—पूर्व आशियाचा आधुनिक इतिहास.

*Books for Reference*

1. Carr. E.H.—International Relation between the two World Wars.
2. Beckmann, G.—Modernization of China and Japan.



**T.Y.B.A. / 297**

**(29) Logic**

**G-3 : General Paper III**

**Section I : Indian Logic**

- Topic 1: Nature and kind of Pramanas, Anumana and its kinds : Svarthanumana and Pararthanumana, Kevalanvayi, Kevalavyatireki and Anvayavyatireki. The concepts of Vyapti and Paramarsa.
- Topic 2 : Paksa, Sapaksa and Vipaksa. The five requirements of good Hetu according to Nyaya and the three requirements according to Buddhists.
- Topic 3 : Pancavayavi Vakya Comparison with Aristotalian Syllogism, Significance of Udadhavana.
- Topic 4 : Hetvabhasa.

*Books for Reading ( Relevant Section only )*

1. Tarka-Samgraha of Annambhatta, edited with critical and explanatory notes—Y.N. Athalye and translated with Introduction by M.R. Bodas, NORI, Pune (1994).
२. भारतीय तर्कशास्त्राची रूपरेखा—सुरेंद्र बारलिंगे आणि क्रांतिप्रभा पांडे, परामर्श प्रकाशन, पुणे विद्यापीठ, पुणे.
३. भारतीय तत्त्वज्ञान—श्रीनिवास हरि दीक्षित, काँटिनेंटल प्रकाशन, पुणे.

**Logic & Methodology of Science**

**Logic Paper III**

**Paper III Section II**

**Methodology of Natural & Social Science**

Topic I :

- 1.1. Distinction between common-sense Science :  
Generalizations, Predictions and notion of cause.
- 1.2. Nature of scientific induction, problem of induction.

Topic II :

- 2.1 Method of hypothesis in nature, Science Nature of  
good hypothesis, Verification of hypothesis and  
problem concerning proof of hypothesis.  
Mill's methods of proof : Method of agreement and  
method of difference.
- 2.2 Nature and classification of Laws of nature.  
Distinction between law and theory.
- 2.3 Nature and various forms of scientific explanation.

Topic III :

- 3.1 Nature of Social Science. Distinction between  
natural and Social Science.
- 3.2 Goals of Social Science : Understanding and  
explanation. Positivist and non-positivist approaches  
to social Sciences.
- 3.3 Some data collection method observation,  
participatory and non-participatory types of  
observation, Questionnaire, Interview.
- 3.4 'Unity of Method—thesis and its Criticism.'  
Problem or value neutrality in Social Science.  
Problem of objectivity and subjectivity in Social  
Science

**T.Y.B.A. / 299**

*Reference Books*

1. Bhandarkar P.L. & Wilkinson T.S. : Methodology & Techniques of Social Research, Himalaya Publishing House, Bombay, 1977.
- (२) प्रा. हुल्याळकर, एस. जी., प्रा. कडे, एस. व्ही., प्रा. कावळे, एस. आर. : सुगम तर्कशास्त्र आणि वैज्ञानिक पद्धती, अनाथ विद्यार्थी गृह प्रकाशन, पुणे, १९१९.
- (३) प्रा. भांडारकर, पी. एल.: सामाजिक संशोधन पद्धती, दत्तसन प्रकाशन, नागपूर, १९७६.
- (४) प्रा. सुमित्रा भावे, सामाजिक पाहणी : तत्त्व व पद्धती, समाजवादी महिला सभा प्रकाशन, पुणे, १९७७.
- (५) संपादक प्रा. नागोराव कुंभार : सामाजिकशास्त्रे : तोंडओळख, प्रबोधन प्रकाशन, लातूर, १९८६.
- (६) परामर्श : विज्ञानाचे तत्त्वज्ञान (विशेषांक)  
भाग - १ - अंक - खंड - ८, ऑगस्ट १९८६.  
भाग - १ - अंक - खंड - ९, मे, १९८७.  
परामर्श प्रकाशन, तत्त्वज्ञान विभाग, पुणे विद्यापीठ.

**T.Y.B.A. / 300**

**(30) Gandhian Thought**

**General Paper III**

SECTION 1

*Gandhian Political Philosophy :*

(1) Meaning of Freedom is a political value. The Indian struggle for Freedom. The problems of Means and Ends in Indian political life. The Gandhian concepts of spiritualization of politics.

(2) The concept of Non-violence and Satyagraha. Satyagraha as a way of life. The pre-requisites of a Satyagrahi, Passive and active resistance. The Gandhian doctrine of Satyagraha as a technique of corporate action in political and social life. Political mass movements. The techniques of non-violent and silent social revolution.

(3) Gandhian view of the nature and function of the state as a political institution. Gandhian critique of Totalitarianism, Militarism and Anarchism. The structure and function of the non-violent state. Gandhi's conception of democracy, Rights and duties of citizens. Scope and limits of civil disobedience stateless society.

(4) Non-violent Nationalism. International relations. Gandhian critique of the institution of war. World unity through world federation. Disarmament. Eradication of war through mental and moral purification of man. International Co-operation. The doctrine of panchasheel in international politics.

**T.Y.B.A. / 301**

*Books for Reading  
For Section I*

- (1) Selection from Gandhi : N.K.Bose, Navajivan, 1957.
- (2) The Political Philosophy of M.Gandhi : G.N.Dhavan, Navajivan, 1948.
- (३) गांधी विचार दर्शन : खंड चौथा : सत्याग्रह विचार : गांधी वाङ्मय प्रकाशन समिती (महाराष्ट्र).
- (४) गांधी विचार दर्शन : खंड बारावा : राजकारण.
- (५) गांधी विचार दर्शन : खंड विसावा : अहिंसाविचार.

*References*

- (1) Towards New Horizon : Pyarelal, Navajivan, 1959.
- (2) Socialism, Sarvodaya and Democracy : J. Narayan, Asia, 1965.
- (3) The Moral and Political Thought of M.Gandhi : Raghavan Iyer, Oxford, 1973.
- (4) The Political Philosophy of Gandhi and Sarvodaya : V.P. Varma, Agra.

**SECTION II**

*Gandhian Thought and Contemporary Problem :*

- (1) The structure of human values implicit in Gandhian Thought. The standpoints of religion and science. Gandhiji's outlook on science and technology. Gandhian view of human life in relation to nature. The concept of ecological balance and harmony.
- (2) Modern trend of Industrialization. Material, sociocultural and psychological problems of industrialization : Pollution, exploration and unemployment, Alienation and Depersonalization, Gandhian critique of modern industrial society. Gandhian diagnoses of and prescription for sickness of modern man and society.

**T.Y.B.A. / 302**

(3) The problems of poverty, overpopulation and discrimination in modern life. Philosophical and practical significance of Gandhian theory and practice of constructive programme for social reconstruction. Relevance of the Gandhian concepts of trusteeship, voluntary, self-control and equality of men.

*Books for Readings*

*For Section II*

- (1) Gandhi : Hill Relevance for Our Time : G. Ramchandran and T.K.Mahadevan (ed), G.P.Foundation.
- (2) Gandhi : Social Impact and Contemporary Relevance, I/ 99, Simla, 69.
- (3) Non-violence in Peace and War : M.Gandhi, Navajivan, 1951.
- (4) Self and Restraints Vs. Self-Indulgence : M.Gandhi, Navajivan, 1950.
- (५) गांधी विचार दर्शन : खंड तिसरा : जीवनसाधना.
- (६) गांधी विचार दर्शन : खंड आठवा : ग्रामस्वराज्य.
- (७) गांधी विचार दर्शन : खंड अठरावा : भाषा, संस्कृति, कला.

*Books for Reference*

- (1) Conquest of Violence : John Bondurant, Oxford, 1959.
- (2) Towards understanding Gandhi : D.K.Bedekar, Popular, 1975.
- (3) M.Gandhi-100 years : S.Radhakrishnan, G.P. Foundation, 1968.

T.Y.B.A. / 303

## **(31) Home Economics**

### **Gen. G-5/6 : Dynamics and Challenges of India Society**

1. Concept of social change.
2. Characteristics of traditional society and modernization.
3. Process of Change : Communication, Physical Cultural, Rational, Scientific, Ideological, Educational, Political and Economic.
4. Concepts of conformity and deviation : Passive and active deviation, Ambivalence.
5. Factors in family change : Values, Roles and Function.
6. Attitudinal changes in family behaviour : Intermarriage, dowry, divorce, adoption, marriage and sex.  
Changing status of women in Indian Society, Value conflict in Indian Society.

*Note :* Topics 1 to 4 to be covered in First Term.  
Topics 5 to 8 to be covered in Second Term.

#### *Reading Material*

- (1) Readings in Family and Society : Goode (Prentice Hall).
- (2) Urbanization and Family Change : M.S.Gore (Popular Prakashan)
- (3) Traditional Societies : Edited-A.B.Shah.
- (4) Rural Sociology in Indian : A.R.Desai (Popular Parkashan).
- (5) Marriage and the Working Women in India : Pramila Kapur (Vikas, Bombay).

#### *Equivalence of Subject*

G 5 + G 6 = General Paper II.

**T.Y.B.A. / 304**

**Special Paper III-Child Development**

1. Child Development : Normal growth and development from conception till birth, principle of development and stage of development, characteristics of the stage of development from early childhood to adulthood, Physical development. Mental development, Language development. Emotional development, Social and moral development, Learning and maturation processes, Development of imagination.

2. Family Relation of Childhood : Maladjustment in family relation, Child-Parent relationship, Child relationship with his siblings, Husband-Wife relationship and its effect on the child development. Recent changes in family patterns and their effect in family relationships.

*Note :* Topic 1 to be covered in the First Term.  
Topic 2 to be covered in the Second Term.

*Reading Material*

- (1) Child Development : Elizabeth Nurlock.
- (2) The Psychological Development of the Child-Paul Mussen.
- (3) A Text Book of Child Behaviour and Development : B. Kuppaswamy (Vikas, Bombay).
- (4) Problems of Children : J.C.Marfatia.

*Equivalence Subject*

S5+S6 = Special Paper III : S7+S8 = Special Paper IV.



**Special Paper IV - Social Education and Extension**

(1) Modern concept of Social Education : i.e. Adult Education and extension, Importance of Home Economic Education in the field of Social Education.

(2) Historical background of social education, Home economics in India. U.K. and the U.S.A. Social education and Co-operative movement, UNESCO and the fundamental education, Psychological foundations of learning. Adult abilities and motivation, Social and psychological characteristics influencing adult learning, Education for citizenship for social participation and for sex, marriage and family life.

(3) Extension and Concept of Continuing Education : Discussing, Role-playing, Lecture-talk, Audio-visual aids. Adult literacy methods, Review of materials used in teaching, Literature for new-literature, Library service.

(4) Social Education Programme in India : Community development and social education, training of social education workers.

*Note :* Topics 1,2 to be covered in First term.  
Topics 3,4 to be covered in Second term.

*Reading Material*

- (1) Psychological Foundations : L.W.N.Dandekar, Mc Millan (Section II only).
- (२) शिक्षणाचे मानसशास्त्रीय अधिष्ठान : प्रा. आफळे व बापट, विभाग २ रा फक्त, श्री विद्या प्रकाशन, पुणे.
- (3) Adult Education in India : Edited by Anil Bordia, J.R. Kidd and J.A.Draper (Section I, Chapter 3; Section II, Chapter 6, Section III and Section V-A and B respectively).
- (4) Extension and Rural Welfare : O.P.Dahama (Chapters 2,4,5,16,18 to 21).

**T.Y.B.A. / 306**

*References*

- (5) The Indian Rural Problem : M.B.Nanavati and Anjaria. Indian society of Agricultural economics, Bombay 1 (Chapter X only).
- (6) Developmental Work among Rural Woman : K. N. Nimabalkar.
- (7) Principles of Education : Prof. R.M.Marathe (Chapter 16 only ).
- (8) Education, Culture and the Social Order : K.S. Sajidian (Chapter I only).

*For Topics 3,4 Text Books*

- (1) Community Development : Principles, Practices and Problems : Dr. R.Lal, Bookland Pvt., Calcutta (Chapter III and Appendix 1 and 2).
- (2) Comparative Education : S.P.Choube (Chapters 9,10,48 only).
- (3) Encouraging Community Development : A Training Guide for Local Worker : Willam W. Bhiddle (Chapters 1,2, and 3 only)
- (4) Extension Education in Community Development : Directorate of Extension, Ministry of Food and Agriculture, Government of India, New Delhi (Parts, I, II, II and IV only).

*References*

- (5) Reports of the Committee on Democratic Decentralization, Co-operation and Rural Development Dept. Govt. of India (Chapter 5 only).
- (6) History of Rural Development in Modern India, Vol. I, Impex India, New Delhi (Chapter XVI only).
- (7) Audio-visual methods in Teaching—Edgar, Dhale, Chapter 3 only.
- (8) Learning to be—Publication of UNESCO, Paris, 1972, Sterling, Delhi, 1973 (Relevant Chapters only).

**T.Y.B.A. / 307**

**S-3 PEASANT SOCIETY AND CULTURE**

1. *Caste* : 8 lectures
  - (a) Caste as an Institution.
  - (b) Characteristics of caste.
  - (c) Functioning of caste in village.
2. *Dynamics of Caste* : 8 lectures
  - (a) Social Mobility-Sanskritization, Westernization, Modernization.
  - (b) Dominant caste.
  - (c) Impact of Democracy Technical development.
3. *Village as a Unit* : 8 lectures
  - (a) Baluterdari Jajmani system
  - (b) Jamindari and Rayatwari
  - (c) Land Holding
4. *Panchayati Raj* : 10 lectures
  - (a) Community Development Block.
  - (b) Panchayats Traditional and Modern
5. *Religion* : 8 lectures
  - (a) Characteristics of rural religion.
  - (b) Festivals-role of temple.
6. *Continuity between Folk, Rural and Urban Societies* : 10 lectures
  - (a) Concept of folk-urban continuum.
  - (b) Concept of peasant society.
  - (c) Cultural role of cities.
7. *Civilization* : 10 lectures
8. Socio-cultural changes in Rural India : 10 lectures

## **T.Y.B.A. / 308**

### *Text Books*

- (१) त्रिं ना. अत्रे : गाववाडा.
- (२) चुनखडे आणि पाटील : ग्रामीण समाजशास्त्र.
- (3) Robert Redfield : Peasant Society and Culture.
- (4) Robert Redfield : Human Nature and the Study of Society (Selected Chapters).
- (5) Krober A.L. : Configuration of Cultural Growth.
- (6) Guy Rocher : Introduction to Sociology (Selected chapters).

### *References*

- (1) Ghurye : Caste, Class and Occupation in India
- (2) Srinivas : Caste in Modern India and other essays
- (3) Srinivas : (ed) : India's Villages
- (4) Dube, S. C. : Village India.

## **S-4 RESEARCH METHODS AND FIELD WORK**

1. Scientific Method in Social Sciences : 10 lectures
  - (a) Nature of scientific enquiry
  - (b) Why scientific method ?
  - (c) Principles of Scientific procedure
  - (d) Concepts, assumptions, generalization laws
  - (e) Hypothesis and Variables
2. Field Work Tradition in Anthropology : 5 lectures
  - (a) General Characteristics of Anthropological field work.
  - (b) Problems of field work in tribal, rural and urban areas.
3. Field Work Techniques :
  - (a) Observation-Participant and non-participant.
  - (b) Gnenalogy.

### **T.Y.B.A. / 309**

- (c) Interviews.
- (d) Sociological Census.
- (e) Life History and Caste Study.
- 4. Schedules and questionnaires Topics 1 to 5 for Annual Examination. 5 lectures
- 5. Data Processing and Analysis : 5 lectures

#### *Field Work*

A student should be sent preferably to a tribal area individually or in a group accompanied by a teacher. A batch of students should not consist of more than twelve to fifteen students. Students could stay in village for about ten to fifteen days and study different aspects of tribal culture. Field work report of 40 marks should be assessed externally.

#### *Text Books*

1. Pauline V.Young, 1968 : Scientific Social Surveys and Research (Selected chapters).
2. Thoms Ryls Williams, 1967 : Field Methods in the study of culture.
3. Srinivas M.N., 1979 : Field Worker in the Field.
4. Spindler George (ed.) 1970 : "Being An Anthropologist": A perspective of Anthropological field work in 11 different cultures.
5. Murdork G.P. : Outline of Material Culture.
6. Notes and Querrier in Anthropology.

#### *Optional Courses : Opt. I : Physical Anthropology*

1. Physical Anthropology : Nature and Scope
2. Development of Physical Anthropology in the world context :
  - (a) Pre 19th century developments
  - (b) 19th century developments
  - (c) 20th century developments

### **T.Y.B.A. / 310**

Contributions of Hanno, Hippocrates, Aristotle, Galan,  
Andrews Vesalius, Bluemen Bach, Buffon Paul Broca.

(Topics 1 to 5 Annual Examination)

3. Physical Anthropology in India : Nature, Scope and Prospectus.
4. Anthropometry, origin, historical development, branches, scope and applications.
5. Latest Trends in Physical Anthropology.

#### *Text Books*

1. Kulkarni V.S., 1983 : Bhoutiki Manavashatra (Marathi), Maha. Literature and Cultural Board, Bombay, India.
2. Hooton E.A., 1946 : Up from the Ape, The Macmillan Co., New York.
3. Sarkar, R.M., 1970 : Fundamental of Physical Anthropology, Century Publishers, 53, Patuatola Lane, Culcutta 9, India.

#### *References*

1. Brew : 100 years of Antropology
2. Penniman : 100 years of Anthropology
3. Comas Juan, 1952 : Manual of Physical Anthropology, C. C. Thomas Publishers, Springfield Winios, U.SA.

#### *Opt. II : Human Genetics*

1. Components of Heredity : Cell, Chromosome, Gene.
2. Genes in action : Principles of heredity.

**T.Y.B.A. / 311**

3. Autosomes and sex chromosomes.
4. Sex determination in Man and sex linked inheritance.
5. Chromosome mistakes and diseases.
6. Gene and Society.

*Text Books*

1. Dalela and Verma, 1975 : A Text Book of Genetics.
2. Mchusick V., 1971 : Human Genetics.
३. कुलकर्णी, वि. श्री., १९८३ : भौतिक मानवशास्त्र.

*References*

1. Bonner, D.M., 1963 : Heredity.
2. Darlington, C.D., 1966 : Genetics and Man.
3. Volpe, Peter, 1971 : Heredity and Birth Defects.
4. Winchester, A.M., 1977 : Genetics.

T.Y.B.A. / 312

**(32) Anthropology**

T.Y.B.A. (From June 1999-2000)

**G3 : MAHARASHTRA : A CULTURE REGION**

*Term I :*

- I. Maharashtra as a *culture region* :
  - (a) Brief history
  - (b) Geographical regions of Maharashtra
    - Vidarbha
    - Marathwada
    - Western Maharashtra
    - Konkan
    - Khandesh
  - (c) Concept of Maratha Culture and Maharashtra Dharma.
- II. Maharashtra : *Social Organization*
  - (a) Castes and Scheduled Castes.
  - (b) Scheduled Tribes
  - (c) Nomadic and Denotified Tribes
  - (d) Migrants from other state
  - (e) Ethnic plurality
- III. Maharashtra : *Economic Organization*
  - (a) Geographical and Environmental features
  - (b) Agriculture in Maharashtra
  - (c) Co-operative movement
  - (d) Cash groups : Sugar cane, Tobacco, Grapes
  - (e) Baluteduri system
  - (f) Poverty of Agrarian labour and Peasants
  - (g) Irrigation
  - (h) Industrialization



**T.Y.B.A. / 313**

IV. Maharashtra : *Cultural Life*

- (a) Religious Festivals
  - Diwali
  - Ganesh festival
  - Christmas
  - Holi
- (b) Religious fast :
  - Ekadashi, Chaturthi etc.
  - Moharrum Jain fasts
- (c) Gods and Deities
  - (i) Vithal
  - (ii) Khandoba
  - (iii) Tulaja Bhavani
  - (iv) Nanded Gurudwara
  - (v) Mahalakshmi
- (d) Saints and God-men
  - Dnyaneshwar, Tukaram, Ramdas, Janabai, Saibaba,
  - Gajanan Maharaj
- (e) The Warkari Cult
- (f) Marathi language.

**Term II (G-3)**

V. Maharashtra : *Rural Crafts and Arts*

- (a) Handicrafts and cottage industries : Utensil making and Paithni (weaving).
- (b) Tamasha and Lavani—their popularity as folk art
- (c) Kirtan—Hari Katha
- (d) (1) Cave temples (Leni)  
(2) Cave paintings (Ajanta)  
(3) Forts

**T.Y.B.A. / 314**

- VI. Maharashtra : *Social Reforms*
- (a) History of the reform movement
  - (b) Social Reformers
    - (i) Rajarshi Shahu Maharaj
    - (ii) Mahatma Jotirao Phule
    - (iii) Principal G.G.Agharkar
    - (iv) Dr. B.R.Ambedkar
    - (v) Maharshi Shinde
    - (vi) Maharshi Karve
- VII. *Political Movements in Maharashtra :*
- (i) Lokmanya B.G.Tilak and G.K.Gokhale
  - (ii) V. D. Savarkar and the revolutionary movements
  - (iii) Participation of S.C., S.T. and peasants in political awakening during the 20th century
  - (iv) Movement for Education in Maharashtra.
- VIII. *Educational Movements*
- (i) Women's Education
  - (ii) Scheduled Tribe and Scheduled Caste Education
  - (iii) Contribution of Maharshi D.K.Karve's Jotiba Phule
  - (iv) Karmaveer Bhaurao Patil, Dr. Panjabrao Deshmukh, Rasosaheb Thorat—their contribution to the spread of education in Rural Maharashtra.
- IX. *Protest Movements in Maharashtra :*
- (1) History of Protest Movement
  - (2) Godavari Parulekar's work among Tribals
  - (3) Dalit Panthers and Mass Movement
  - (4) Ek Gaon, Ek Panavatha

**T.Y.B.A. / 315**

*Books*

- (1) Iravati Karve : Marathi Lokanchi Sanskriti
- (2) Javadekar : Adhunik Bharat
- (3) P. G. Sahasrabuddhe : Marathi Sanskriti
- (4) G. D. Kulkarni : Stree
- (5) Dastane (दरवर्षी प्रकाशित) : Maharashtra 1996
- (6) Bharat Sarkar : India 1996.

**T.Y.B.A. / 316**

**PAPER V (a) GRAPHS AND LATTICES (MG-3)**

**SECTION I : FIRST TERM**

**(Graphs)**

1. Revision (4 Lectures)
2. Matrix representation of a graph, incidence matrix, adjacency matrix, isomorphism using matrix representation. (6 Lectures)
3. Trees and connectivity : Definition and simple properties, bridges, spanning trees, connector problem, shortest spanning tree, Kruskal's algorithm, Prim's algorithm, fundamental circuits, cut vertices, cutset, vertex connectivity, edge connectivity, Menger's theorem and its applications, binary trees. (20 lectures)
4. Directed graphs : Types of digraphs, digraphs and binary relation, Arborescence, Polish notation. (8 Lectures)
5. Colouring : Vertex colouring, chromatic number, chromatic polynomial, vertex colouring algorithm, critical polynomial, vertex colouring algorithm, critical graphs, cliques, edge colouring. (10 Lectures)

*Books*

1. Graph theory with applications to engineering and computer science—Narsing Deo  
Art. 3.1, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 4.1, 4.2, 4.3, 4.4, 4.5, 7.1, 7.2, 7.9, 8.1, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6.
2. A first look at graph theory—Clark & Holten, Alied Publishers Ltd.  
Art. 1.7, 2.1, 2.2, 2.3, 2.4, 2.6, 6.1, 6.2, 6.3, 6.4, 6.5, 7.1, 7.2, 8.3.
3. Graph Theory — Raghunathan & Bhawe.

**T.Y.B.A. / 317**

**SECTION II-SECOND TERM**

**LATTICES**

6. Lattices : Posets, diagrammatic representation Hasse diagram, Maximal and minimal elements of the subset of a poset, infimum and supremum of the subset of a poset, two definitions of a lattice, Equivalence of two definitions, modular and distributive inequalities in a lattice, sublattice, semilattice, complete lattice. (16 Lectures)
7. Ideals and Homomorphism : Ideals, union and intersection of ideals, prime ideals, principal ideal, dual ideal complements, relative complements, Jordan-Dedekind condition, pentagonal lattice atoms, dual homomorphism image of a complemented lattice, quotient lattice. (16 Lectures)
8. Modular and Distributive lattices : Modular lattice, normal subgroups of a group form a modular lattice, sublattice of a modular lattice, homomorphic image of a lattice, Dedekind's characterization of a modular lattice, modularity of  $I(L)$ , (Ideal lattice of  $L$ ) relatively complemented lattice. Distributive lattice, definition, necessary and sufficient condition for a lattice to be distributive, sublattice of a distributive lattice, homomorphic image of distributive lattice, Birkhoff's characterization of a distributive lattice, distributivity of  $I(L)$ , (Ideal lattice of  $L$ ), Boolean lattice.

*Text Books*

1. Lattices and Boolean Algebras—V.K.Khanna, Vikas Publication House Pvt. Ltd., New Delhi. Chapter : 2,3,4.
2. Discrete Mathematics — Schaum's Series.
3. Modern Applied Algebra — Bratle.

**T.Y.B.A. / 318**

**SPECIAL PAPER 3**

**PAPER II : MODERN ANALYSIS MS-3**

**Section - 1 : First Term**

1. Sets and Functions : Equivalence, Countability.  
(7-Lectures)
2. Metric Spaces and Limits in Metric Spaces. (7-Lectures)
3. Continuous Functions on Metric Spaces : Continuity on the real line, Continuous Functions on Metric Spaces, Open and closed sets, Discontinuous functions on  $\mathbb{R}^1$   
(14-Lectures)
4. Connectedness, Compactness and Completeness : Connected sets, Bounded sets, totally bounded sets, Compact metric spaces, Continuous functions on compact metric spaces, Continuity of the inverse function, Uniform continuity, Complete Metric Spaces. (20-lectures)

**Section II -Second Term**

5. Measurable sets : Length of open sets and closed set, Inner and outer measure, measurable sets, properties of measurable sets. (10-Lectures)
6. Measurable Functions (8-Lectures)
7. The Lebesgue Integral : Definition and existence of Lebesgue Integral for bounded functions, Properties of Lebesgue Integral for bounded measurable functions. The Lebesgue Integral for unbounded functions. Some fundamental theorems. (20-Lectures)
8. Fourier Series : Definition and examples, formulation of convergence problem. (10-Lectures)

**T.Y.B.A. / 319**

*Text Book*

1. Methods of Real Analysis—R. R. Goldberg. Chapter 1 (Art. 1.1 to 1.5), Chapter 4 (Art 4.2, 4.3), Chapter 5, Chapter 6, Chapter 11 (Art. 11.1 to 11.8, 11.8D without Proof), Chapter 12 (Art. 12.1 and 12.2).

*Reference Books*

1. R.G.Bartle:Elements of Real Analysis
2. D.Somasundaram & B.Choudhary:A first course in Mathematical Analysis (Narosa Publication)
3. W.Rudin:Principles of Mathematical Analysis.

**Special Paper 4**

**PAPER III : REAL ANALYSIS (MS-4)**

**SECTION-I : FIRST TERM**

1. Sequences of Real Numbers : Definition of sequence and subsequence, Limit of a sequence, Convergent Sequences, Monotone sequences, Divergent sequences, Limit superior and Limit inferior, Cauchy sequences.  
(12-Lectures)
2. Series of Real Numbers : Convergent and divergent Series, Series with non-negative terms, Alternating series, Conditional and absolute convergence, Re-argument of Series, Tests of absolute convergence, Series whose terms from a non-increasing sequence. (16-Lectures)
3. Riemann Integral : Sets of measure zero, definition and existence of Riemann Integral, Properties of Riemann Integral, Fundamental theorem of Integral Calculus, Mean Value theorems of Integral Calculus.  
(20-Lectures)

**T.Y.B.A. / 320**

**SECTION II : SECOND TERM**

4. Improper Integrals : Definition of improper Integral of first kind, Comparison test, u-test, Absolute and conditional convergence, Integral test for convergence of series, Definition of improper integral of 2nd kind, Comparison test, u-Test, Absolute and conditional Convergence, Cauchy principle value. (20-Lectures)
5. Sequences and series of function : Pointwise and uniform convergence of sequence of functions, Consequences of uniform convergence, Convergence and uniform convergence of series of functions, Intergration and differentiation of series of functions (20-Lectures)
6. Techniques of differentiation and integration under integral sign. (only examples) (8-lectures)

*Text Books*

1. R. R. Goldberg : Methods of Real Analysis (Oxford IBH Publ. Co.)  
Chapter 2 (Art. 2.1 to 2.10), Chapter 3 (Art. 3.1 to 3.7),  
Chapter 7 (Art. 7.1 to 7.4 and 7.8),  
Chapter 9 (Art. 9.1 to 9.5)
2. Widder : Advanced Calculus
3. D. Somasundaram & B. Choudhary : A First Course in Mathematical Analysis (Narosa Publ. House)
4. R. G. Bartle : Elements of Real Analysis
5. Shantinarayan : Course of Mathematical Analysis

*References*

1. S. C. Gupta, Nisha Rami : Principles of Real Analysis, Vikas Publications House.
2. S. C. Malik, S.Arora:Mathematical Analysis
3. S. C. Saxena and S.M.Shah : Introduction to Real Variable Theory.



T.Y.B.A. / 321

## **(34) Applied Mathematics**

### **DYNAMICS AND DIFFERENTIAL EQUATIONS**

**(AMG-3)**

#### **SECTION 1 : FIRST TERM (DYNAMICS)**

1. *Basic Concepts* : Time, frames, particle, displacement, velocity, composition and resolution of velocities, relative velocity, Angular Velocity, Variable velocity, Uniform accelerated motion, Bodies falling under gravity and projected vertically upwards. (10-Lectures)
2. *Newton's Laws (Applications to Rectilinear motion)* : Mass, Momentum, Force, Newton's laws of motion, The equation of motion, Applications to rectilinear motion including S.H.M. Body moving in contact with another body, motion on a smooth inclined plane. (8-Lectures)
3. *Projectiles* : The motion of a projectile and its trajectory, Velocity at any point, target problems, Range on inclined plane. (12-lectures)
4. *Work Energy Principle and Conservation Laws* : Work Power; Kinetic energy, Work Energy, Principle. Conservative forces, Potential energy, Conservation of total mechanical energy. (6-lectures)
5. *Central Orbits* : Radial and transverse components of velocity and acceleration, Areal velocity, Central orbit, Motion under inverse square law. Kepler's laws of planetary motion, Newton's laws of gravitation, Satellite orbits. (12-Lectures)

SECTION II : SECOND TERM

(Differential Equations)

6. *Ordinary Differential Equations in three variables* : Surfaces and curves in three dimensions, simultaneous differential equations or 1st order and 1st degree. Methods of solving  $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$  Orthogonal trajectories of a system of curves of a surface. Paffian differential equation in three variates,  $Pdx+Qdy+Rdz = 0$  by (a) Inspection (b) Variables spearable (c) One variable separable (d) Homogeneous Equations (e) Natanis methods (f) Reduction to an ordinary differential equation. Meaning of Integral curves. (24-Lectures)
7. *Partial differential equation of the first order (PDE)* : Origin of the p.d.e., Cauchy's Problem. Linear equations of the first order, Integral surfaces through a given curve, Surfaces orthogonal to a given system of surfaces, Non-linear p.d.e. of first order compatible first order equations, Charpit's method, special types of first order equations, Solutions satisfying given conditions, Jacobi's methd. (24-Lectures)

*Text Books*

1. A text book of dynamics—J.N.Kapur and J.D.Gupta (R.Chand & Co, New Delhi, 3rd Edition, 1982)  
Chapter 2 (Art. 2.1 to 2.9), Chapter 3 (Art. 3.1 to 3.6),  
Chapter 4 (Art. 4.1 to 4.6), Chapter 7 (Art. 7.1 to 7.7),  
Chapter 9 (Art. 9.1 to 9.7),

**T.Y.B.A. / 323**

2. Text book of dynamics — M.Ray
3. Elements of partial differential equations — Ian Sneddon  
Mcgraw Hill  
Chapter I (Art. 1 to 6), Chapter 2 (Art. 1 to 7 and 9 to 13)
4. An Elementary course in partial differential equation —  
T. Amarnath (Narosan Publication, 1997).

**OR**

**SPECIAL FUNCTIONS AMG-3**

**Section I : First Term**

1. *Infinite Products* : Definition, Necessary condition for convergence, associated series of logarithms, absolute convergence, Uniform convergence. (6-Lectures)
2. *The Gamma & Beta Functions* : Euler's definition of gamma functions, their simple properties, the factorial function, Legendre's duplication formula. (10-Lectures)
3. Series solutions of differential equations near an ordinary point and near regular singular points. (6-Lectures)
4. *Hypergeometric Functions* : Definition of Hypergeometric function, Gauss hypergeometric equation and its solution. The hypergeometric series and its particular cases, different forms of hypergeometric functions, integral formula for hypergeometric function, Kummer's Gauss's Vandermonde's theorem, differentiation of hypergeometric functions. (14-Lectures)
5. *Bessel Functions* : Bessel's equation and its solution, Integration of Bessel's equation for  $n=0$ ,  $J_0(x)$ , recurrence formulae for  $J_n(x)$  generating function for  $J_n(x)$  (12-Lectures)

**T.Y.B.A. / 324**

6. *Orthogonal Polynomials* : Simple sets of polynomials, Orthogonality and equivalent condition, expansion of polynomials, the three term recurrence relation, the Chistoffel Darboux formula, Normalization, Bessle's inequality. (10-Lectures)
7. *Legendre Polynomials* : Legendre's equation and its solution, definition of  $P_n(x)$  and  $Q_n(x)$ , generating function, Rodrigue's formula, Orthogonal property, recurrence formulae. (12-Lectures)
8. *Laguerre Polynomials* : Laguerre's equation and its solution, Laguerre polynomials, generating function, Rodrigue's formula, orthogonal property, recurrence formulae.  
*Associated Laguerre's Polynomials* : Definition, generating function, Rodrigues formula, orthogonal property, recurrence formulae. (18-Lectures)
9. *Hermite polynomials* : Definition, generating function, other forms of Hermite polynomials, orthogonal property, Recurrence Formulae. (8-Lectures)

*Text Books*

1. Special Functions — E.D.Reainville.  
Chapter 1, Chapter 2, [11,12,15,16,17,18,19], Chapter 9.
2. Mathematical Methods - Sharna & Gupta  
Chapter 2 [2.1 to 2.3, 2.5, 2.7, 2.8, 2.10, 2.12.]  
Chapter 4 [4.1 to 4.13]  
Chapter 5 [5.1 to 5.7]  
Chapter 6 [6.4, 6.5, 6.7, 6.8]  
Chapter 7 [7.1, to 7.5, 7.7, 7.8, 7.11 to 7.16]

**T.Y.B.A. / 325**

3. Elementary differential equations — Reinville & Bedient  
Chapter 17 (Art. 103)  
Chapter 18 (Art. 104, 105)

*Reference Books*

1. Mathematical Methods for Physics (3rd Ed.) : — George Arfken.
2. Special Functions — D.B.Saron.

**OR**

**PAPER VII (C) :**

**DIFFERENTIAL GEOMETRY (AMG-3)**

**Section I : First Term**

1. *Curves in Space* : Tangent line, principle normal and binormal at a point on a space curve, osculating plane, normal plane and rectifying plane at a point on a curve, Torsion, Curvature, radius of curvature, Serret-Frenet formulae. The circle of curvature, properties of the locus of the centre of the spherical curvature, spherical indicatrix, involutes and evolutes, The curvature and torsion of the evolute, Bertrand curves, fundamental theorem for space curves, congruent curves, intrinsic equations, contacts of the  $n$ th order of a curve and a surface. (24-Lectures)
2. *Developable Surfaces & Envelopes* : Surfaces, parametric representation of surfaces, tangent plane, normal line at a point, envelopes and characteristics relating to one parameter family of planes and two parameter family of planes.

## T.Y.B.A. / 326

*Developable surfaces* : general differential equation of a developable surface, Developables associated with space curves. Properties of the associated developables, characteristic points. (16-Lectures)

3. *Ruled Surfaces* : Criterion of skew surfaces, tangent plane to a surface, tangent surface, central point, line of striction. (8-Lectures)

### Section II : Second Term

4. *Curves on surfaces* : Curvilinear coordinates, 1st and 2nd order fundamental magnitudes, fundamental forms, direction coefficients, derivative of the unit surface normal, curvature of normal section, Meusnier's theorem, Theorems on Gaussian curvature. (12-Lectures)
5. *Line of curvature* : Principle directions, lines of curvature, principle curvatures, Eule's theorem, Jaochimsthal's theorem, Rodrigue's theorem, first and second curvature, minimal surfaces, Dupin's theorem, Dupin's indicatrix. (14-Lectures)
6. *Curves traced on a surface* : Conjugate directions and parametric curves, conjugate directions and Dupin's indicatrix. Asymptotics lines. (10-Lectures)
7. *Geodesics* : Geodesic differential equation, External property, Normal property, Analytic Property, Geodesics on a surface of revolution, Clairaut therom, geodesics on developables, geodesics on central conicoids, curvature and torsion of a geodesic, Bonnet's formula. (12-Lectures)

**T.Y.B.A. / 327**

*Text Books*

1. Differential Geometry of three Dimensions — C. E. Weatherbum, Scientific Book Agency Publisher, Patana.

*Reference Books*

1. An introduction to differential geometry —T.J.Wilmore (Oxford Publ.).
2. Differential geometry — J. Struik.
3. Three-dimensional Differential Geometry — Bansilal (Atma Ram & Sons).
4. Differential Geometry — Nirmala Prakash (Tata Mc Graw Hill).

T.Y.B.A. / 328

## **(35) Industrial Mathematics**

### **COMPUTER PROGRAMMING & APPLICATIONS**

(IMG-3)

#### **FIRST TERM**

1. *Computer Basics* : Introduction to computer, Computer Characteristics, Types of Computer, Block diagram, Memory Management, Algorithms & Flowcharts. (10-Lectures)
2. Introduction to Computer Programming and 'C' Language., Character set, Identifiers & keywords, Variable & Constants, Modulus & Functions, Operators & expressions. (10-Lectures)
3. *Data Input & Output* : I/O Functions (printf & scanf), Programming style: Escape Sequence & Control Sequence, Planning a program, Simple Programs. (5-Lectures)
4. *Controls Statements* :
  - (a) Conditional Statement-if-else, Switch, break, continue, goto.
  - (b) Looping statements-While, do-while, for, Concept of nested loop, Simple Programs. (8-Lectures)
5. *Functions* : Defining a user define function, Passing, arguments to a function, Function, Prototype, Simple Programs. (10-Lectures)
6. *Numerical Methods* :
  - (a) Matrix & System of Linear equations.
  - (b) Gauss Elimination Method.
  - (c) Eigenvalue problems.
  - (d) Jacobian's Method. (5-Lectures)



**T.Y.B.A. / 329**

**SECOND TERM**

7. Interpolation & Polynomial Approximation :
  - (a) Taylor's Series
  - (b) Lagrange's Interpolation
  - (c) Newton's Polynomial (4-Lectures)
8. Numerical Intergration : Introduction to quadrature, Trapezoidal, Simpson's 1/3rd & 3/8th Rule. (4-Lectures)
9. Recurssion : Solving algorithms based on Recurssion. (3-Lectures)
10. Arrays : Defining, Processing an array, passing an arrays. Simple programs. (7-Lectures)
11. Pointers : Concept, Declaration, Pointer arithmetic. Passing pointer to a function, Array of Pointers, Simple Programs. (10-Lectures)
12. Structures : Defining, array of structures, pointers of Structures, Simple Programs. (8-Lectures)
13. Data Files : Concept, opening & closing data files. Reading & Writing data files, Simple Programs. (12-Lectures)

**PRACTICALS (ANY EIGHT)**

**FIRST TERM**

1. Introduction to Computer
2. DOS Commands
3. Calculating area of triangle & rectangle
4. Calculating volume of a sphere
5. Calculating  ${}^n P_r$  &  ${}^n C_r$

**T.Y.B.A. / 330**

6. Calculating simple & Compound interest
7. Solution of quadratic equations
8. Evaluating  $\sin(x)$  &  $\cos(x)$  using Taylor's series
9. Check for a given number (Prime/odd/even)
10. Calculate a reverse of a number
11. Find largest & smallest number from given series of numbers
12. Print if the number is the magic for e.g.  $153 = 1^3 + 5^3 + 3^3$
13. Fibonacci series.

**SECOND TERM : (ANY EIGHT)**

1. Evaluating  $nCr$  &  $nPr$  by recursion method
2. Arrange given numbers in ascending & descending order
3. To find scalar triple product of three scalar vectors
4. Matrix addition & subtraction
5. Matrix multiplication
6. Gauss's elimination
7. Numerical Integration
8. Interpolation
9. Matrix inverse by Gauss's elimination method by using pointers
10. To find largest & smallest number from a given series of numbers using pointer
11. Handling data files (Reading & Writing operation).

*Reference Books*

1. Computer Fundamentals — P.K.Sinha
2. Programming with 'C'  
— B.C. Gattfriend (Schaum's Series).

## T.Y.B.A. / 331

### *Note*

1. Articles from Computer Fundamentals. Chapter 1 & 2.
2. Articles from Programming with 'C' 2.1, to 2.5, 3.1 to 3.5, 4.4, to 4.7, 5.1 to 5.4, 6.2 to 6.11, 7.1 to 7.7., 9.1 to 9.5, 10.1, 10.5, 11.1 & 11.2, 12.1 to 12.4

### *Imp. Note :*

1. The students who offer Paper VIII (a) Computer Programming and Applications as Optional Paper, for them the distribution of 100 marks of Paper IX (Problems Course) will be as follows :
  - (A) 50 marks problem course paper based on the Paper VII offered by the student.
  - (B) 50 marks practical examination on Paper VIII (a) Computer Programming and Applications.
2. The 50 marks practical examination in paper VIII (a) will be conducted with one External Examiner
3. For practical examination students will be asked to run the two programs. The distributions of marks will be as follows:

(i) One Long Programme	20 Marks
(ii) One short programme	15 Marks
(iii) Viva-Voce	10 Marks
(iv) Journal	5 Marks

---

Total 50 Marks

*Note :* (3) The students; who offer this paper at T.Y.B.A. level, Total marks including theory and Practical carries 150 marks. Out of which theory carries 100 marks and paractical

**T.Y.B.A. / 332**

carries 50 marks. For passing this paper minimum 40 marks in theory and 20 marks in practical is essential, the marks obtained by the candidate out of 150 will be converted to out of 100 marks for final result.

**OR**

**(b) COMPLEX ANALYSIS (IMG-3)**

**SECTION I : FIRST-TERM**

1. Topology of  $C$  :
  - (a) Metric on  $C$ , Open and closed sets, Limit Points, Connected and compact sets. (5-Lectures)
  - (b) Sequences and series divergence, Cauchy Sequences, absolute convergence, Comparison test, ratio test and root test. (10-Lectures)
2. Analytic Functions :
  - (a) Revision : Complex Function, Limit and continuity of complex functions, Algebra of Limits and algebra of continuous functions (6-Lectures)
  - (b) Pointwise and uniform convergence of Sequences of complex functions, differentiable functions, analytic functions, Necessary and sufficient Condition for a function to be differentiable, Necessary and Sufficient condition for a function to be analytic, properties of analytic functions, harmonic functions, radius of convergence of power series, root test, ratio test, Analyticity of power series within radius of convergence (without proof), Uniqueness theorem for power series (without proof) (14-Lectures)

**T.Y.B.A. / 333**

3. Transformations : Linear transformations, the transformation  $W=1/z$ , Point at infinity, linear fractional or bilinear transformations, mobius transformations, an implicit form, mappings of the upper half plane, exponential and logarithmic transformations, the transformation  $w=\sin z$ .  
(13 -Lectures)

**SECTION II : SECOND TERM**

4. Complex Integration :
- (a) Revision : Line integral, Its properties and examples.  
(6-Lectures)
  - (b) Winding, number of a curve, Cauchy Fourseat theorem (without proof), Homtopy version of Cauchy's theorem and its corrollories, Morera's theorem, Cauchy's integral formula, Cauchy's integral formula for derivatives, Examples.  
(14-Lectures)
5. Classification of Singularities : Isolated and non-isolated singularities, Removable singularities, poles, examples.  
(6-Lectures)
6. Calculus of Residues : Residues at simple poles and poles of order greater than 1, Cauchy's residue theorem, Examples.  
(12-Lectures)
7. Applications of residues : Evaluation of improper integrals, Improper integrals involving sines and cosines, definite integrals involving sines and consines. (10-Lectures)

**T.Y.B.A. / 334**

*Text Books*

1. Foundations of complex Analysis. — S. Ponnusamy, Narso Publishing House, Chapter 1:1.5 & 1.6, Chapter 2:2 to 2.3, Chapter 3: 3.1 to 3.7, Chapter 4:4.1 to 4.3, Chapter 5:5.1 to 5.4, Chapter 6:6.1 to 6.3.
2. Complex Variables and Application — J.W.Brown and R.V.Churchill (Mc Graw Hill International edition) Chapter 7 with mentioned topics (4th edition).

*Reference Books*

1. Complex Analysis — J.V.Deshapande (Tata McGraw Hill).
2. The Elements of Complex Analysis — B. Chaudhary (Wiley Eastern, 2nd edition).
3. Complex Variables — Herb Silverman (Houghon Miffin Co., Boston, 1975).

**OR**

**(C) : ASTRONOMY )IMG-3)**

**SECTION I : FIRST TERM**

1. Spherical Trigonometry : Angle of intersection of two great circles, Secondaries, Relation between arc of a small circle, and arc of the great circle, Spherical triangles, polar triangle, cosine rule, Sine Rule. Cotangent Rule. Sine cosine rule, Supplemental Cosine rule, Sine cosine rule, sine cosine, tangent of angle and half angle as functions of sides and vice versa. (16-Lectures)

**T.Y.B.A. / 335**

2. Napier's Delambers analogies, right angled spherical Triangles, Napier's rule of circular parts in right angled spherical triangle. (10-Lectures)
3. Astronomy : Terrestrial Longitude, Latitude Standard and Local time, Celestial sphere and different systems of celestial co-ordinator, Rising and setting conditions of a star. Motion of the sun. Sideria time, Rate of change of zenith distance and azimuth. (11-Lectures)
4. Twilight, Dip of horizon, Atmospheric refraction, refraction in zenith distance. Cassini's hypothesis, differential equation for refraction, Simpson's and Bradly's hypothesis. Refraction in any direction, Refraction in right ascension and declination (11-Lectures)

**SECTION II : SECOND TERM**

5. Kepler's laws of planetary motion, true anomaly, Eccentric anomaly, mean anomaly. Keplar's equation. Expressions of anomalies terms of each other. (12-Lectures)
6. Sidereal time, mean time, conversion of time, equation of time, seasons, synodic period, Geocentric and holo centric conjunctions. (12-Lectures)
7. Geocentric motion of a planet. Elongation of a planet, phases of moon. Brightness of the planet. (12-Lectures)
8. Procession and Nutation : Procession in R.A. declination, Nutation in R>A. & declination, Independent day numbers. (12-Lectures)

*Text Books*

1. Spherical Trigonometry : Todhunter (Revised by Gorakh Prasad.)
2. Spherical Astronomy : Gorakh Prasad (Publisher Pothishalas, Allahabad).

*Reference Book*

- (1) Spherical Astronomy - Smart W. H.

**T.Y.B.A. / 336**

**OR**

**(d) : COMBINATORICS & NUMBER THEORY**

**(IMG-3)**

**SECTION I : FIRST TERM**

1. Generating functions ordinary & exponential generating functions, Applications to identities, Enumerators and their applications to identities, Enumerators and their applications, Partitions. (18-Lectures)
2. Recurrence Relations :Solution by generating functions linear recurrence relations with constant coefficients. Homogeneous and inhomogeneous equations, multiple characteristic roots, complex characteristic roots, particular solutions. (22-Lectures)
3. Applications of recurrence relations. (8-Lectures)

*Text Book*

Foundations of Discrete Mathematics(New Age International Ltd., Edition : 1996, reprint) — K.D. Joshi, Chapter 7.

**SECTION II-SECOND TERM**

4. Divisibility : Revision (Fundamental Theorem of arithmetic g.d.c. of numbers expressed as their linear combination, Euclidean algorithm). There are infinitely many prime numbers. Fermat primes, Mersenne Primes, There are arbitrary large gaps in the sequence of primes. There are infinitely many primes of the forms  $4n+3$ ,  $6n+1$ ,  $4n+1$ . The statement of Dirichlet's theorem on primes in an arithmetic progression. (10-Lectures)



**T.Y.B.A. / 337**

5. Congruences : Revision complete and reduced residue system, Euler's theorem and Fermat's theorem as its corollary, Wilson's theorem, Solution of congruences, chinese remainder theorem. Prime modulus, Primitice roots and power residues. [See Article Numbers] (20-Lectures)
6. Some functions of number Theory : Greatest inter function Arithmetic function, The mobius inversion Formula. (10-Lectures)
7. Some diophantine Equations : The equations  $ax + by = c$  Pythagorean Triangles. (8-Lectures)

*Text Books*

1. Applied combinatorics — Alan Tucker (John Wiley & Sons).
2. An Introduction to the theory of numbers — I.Niven, H.Zuckerman and H.L.Montgomery (John Wiley & Sons, 5th Edition, 11991).  
Chapter 1 [1.1 to 1.39 except theorem 1.19]. Chapter 2 [2.1 to 2.39 except theorem 2.20] 2.7, 2.8 except theorem 2.39, and 2.40, theorem 2.41 statement only)  
Chapter 4 [4.1 to 4.3], Chapter 5 [5.1 and 5.3]

*Reference Books*

1. Theory and problem of combinatorics including concepts of Graph theory—Balkrishnan, Schaum's series (McGraw Hill, 1997)
2. Number Theory—David Burton.

**T.Y.B.A. / 338**

**(36) Statistics**

**Appendix to T.Y.B.A. &  
F.Y.B.C.S. Statistics**

**UNIVERSITY OF PUNE**

The nature of the question papers from F.Y. to T.Y.B.A., B.Sc. and F.Y.B.C.S. Statistics.

- (1) There should be in all six questions which are all Compulsory.
- (2) The distribution of marks should be as follows :

Question No.	Marks
1.	18
2.	16
3.	16
4.	16
5.	16
6.	18

- (3) The First Three questions should be preferably based on approximately the first half of the syllabus and last questions on the 2nd half of the syllabus.
- (4) The 50% internal option should be given in each question i.e. two out of four etc. be asked. It is also effect from April 1999 Examination onwards office should get the approval of higher authorities this should be brought to the notice of concerned Heads of Depts. & Principal of the Colleges using a circular.

**T.Y.B.A. / 339**

**STATISTICS**

**(General and Special)**

*Note :*

1. A student of the three year B.A. degree course offering 'Statistics' at special level must offer 'Mathematical Statistics' as a general level subject in all the three years of the course.

Further, students of three year B.A. degree course are advised not to offer 'Statistics' at the General level subject unless they have offered 'Mathematical Statistics' as a General level subject in all the three years of the course.

2. A student of Three year B.A. Degree course offering 'Statistics' will not be allowed to offer 'Applied Statistics' in any of the Three Years of the course.
3. A student offering 'Statistics' at the Special level must complete all practicals in each of the Practical Paper to the satisfaction of the teachers concerned. He/She must produce at the time of practical examination, the laboratory journal alongwith the completion certificate signed by the Head of the Department.
4. Of the 100 marks for each practical paper, 10 marks shall be reserved for viva-voce and 10 marks for Journal. Thus, a practical paper shall actually carry 80 marks.
5. Duration of practical examination be extended by 10 minutes to compensate for the loss of time for viva-voce of the candidates.
6. In order to acquaint the students with application of statistical methods in various fields such as industries, agricultural sectors, Government institutes, etc., at least one study tour for T.Y.B.A. (Statistics) must be arranged.

**STATISTICS (General)**

**Paper I : Operations Research and Design of Experiments.**

1. Linear Programming (L.P.) (25)
  - 1.1. Statement of the L.P. problem, formulation of problems as L.P. problem.  
Definition of (i) a slack variable (ii) a surplus variable. L.P. problem in (i) canonical form (ii) standard form Definition of (i) a solution (ii) a feasible solution (iii) a basic feasible solution (iv) degenerate and non-degenerate solutions. (v) optimal solution (vi) basic and non-basic variables.
  - 1.2 Solution of L.P.P. by
    - (i) Graphical Method : Solution space, unique and non-unique solutions, obtaining an optimal solution.
    - (ii) Simplex Method :
      - (a) Initial basic feasible solution (IBFS) is readily available, obtaining the IBFS, criterion for deciding whether obtained solution is optimal. u-v method of improving a solution criteria for unbounded solution no solution more than one solutions.
      - (b) IBFS not readily available. Introduction of artificial variable. Big-M Method, Modified objective function, modifications and applications of simplex method to L.P.P. with artificial variables.
  - 1.3 Duality Theory : Writing dual of a primal problem, solution of L.P.P. by dual problem.
  - 1.4 Examples and problems.

**T.Y.B.A. / 341**

2. Transportation and Assignment problem : (22)
- 2.1 Transportation problem (T.P.), statement of T.P., balanced and unbalanced T.P.
- 2.2 Methods of obtaining IBFS of T.P.
- (i) North-west corner rule
  - (ii) Method of matrix minima (least cost method)
  - (iii) Vogel's approximation method(VAM)
- 2.3 Optimal solution of T.P., uniqueness and non-uniqueness of optimal solution, degenerate solution.
- 2.4 Assignment Problem :  
Statement of an assignment problem, balanced and unbalanced assignment problem. Relation with T.P., optimal solution of assignment problem.
- 2.5 Examples and problems.
3. Analysis of Variance (AV) (14)
- 3.1 Models for observations
- (i) One-way  $x_{ij} = m + a_i + \hat{\epsilon}_{ij}$ ,  $i = 1, 2, \dots, b$ ,  $j = 1, 2, \dots, n_i$   
Assumptions and interpretations
  - (ii) Two-way  $x_{ij} = m + a_i + b_j + \hat{\epsilon}_{ij}$ ,  $i = 1, 2, \dots, t$ ,  $j = 1, 2, \dots, b$ .  
Assumptions and interpretations
- 3.2 Concept of resolution of total sum of squares into components for one-way and two-way models. Basic Identity for analysis of variance.
- 3.3 Analysis of One-way Model :  
Estimation parameters, expected values of mean sums of squares, components of variance. Hypothesis for one-way model  $H_0: a_1 = a_2 = a_3 = \dots = a_t = 0$  and its interrelation, Justification of use of F test for  $H_0$ .

## T.Y.B.A. / 342

### 3.4 Analysis of two-way Model

Estimation parameters, expected values of mean sums of squares, components of variance. Hypothesis for one-way model  $H_0: \mu_1 = \mu_2 = \mu_3, \dots = \mu_t = \mu$  and  $H_{01}: \mu_1 = \mu_2, \dots, \mu_b = \mu$ . Justification of use of F test for  $H_{01}$  and  $H_{02}$  (Independence of Chi-squares is to be assumed). Preparation of AV table and F test for  $H_{01}, H_{02}$ .

### 3.5 Examples and problems.

## 4. Design of Experiments : (16)

4.1 Basic terms of design of experiments : Experimental unit, treatments, layout if an experiment.

4.2 Basic principles of Design of Experiments : Replication, randomization, and local control.

4.3 Choice of size and shape of a plot for uniformity trials the empirical formula for the variance per unit area of plots.

4.4 Completely Randomized Design (CRD) : Applications of principles of designs of experiment in CRD, layout, preparation of AV table, testing for equality of treatment effects, linear treatment contrast, testing significance of linear contrast, testing significance of linear contrast test for equality of two specified treatment effects.

4.5 Randomized Block Design (RBD) : Applications of principles of designs of experiment in RBD, layout, preparation of AV table, testing for equality of treatment effects and equality of block effects, linear contrasts, testing significance of linear contrast, testing for equality of two specified treatment effects, comparison of treatment effects using critical difference (C.D.)

- 4.6 Latin Square Design (L.S.D.) : Applications of principles of designs of experiment in LSD, layout, model

$$x_{ij(k)} = m + a_i + b_j + g_k + \hat{\tau}_{ij(k)} ; \quad \begin{array}{l} i = 1,2,\dots,m \\ j = 1,2,\dots,m \\ k = 1,2,\dots,m \end{array}$$

Assumptions and interpretations, Estimation of parameters, expected values of mean sum of squares, components of variance.

Hypotheses for the model

$$H_{01} : a_1 = a_2 = \dots = a_m = 0$$

$$H_{02} : b_1 = b_2 = \dots = b_m = 0$$

$H_{03} : g_1 = g_2 = \dots = g_m$  and its Interpretation. Justification of F-test for  $H_{01}$ ,  $H_{02}$  and  $H_{03}$ .

(Independence of chi-square is to be assumed). preparation of AV table and F test for  $H_{01}$ ,  $H_{02}$  and  $H_{03}$ , testing for equality of two specified treatment effects comparison of treatment effects using C.D., linear treatment contrast and testing significance of liner treatment contrast.

- 4.7 Identification of real life situations where the above designs are used.
- 4.8 Simple algebraic and numerical problems.
5. Efficiency of a Design : (5)
- 5.1 Concept and definition of efficiency of a design.
  - 5.2 Comparison of efficiencies between CRD and RBD.
  - 5.3 Comparison of efficiencies between CRD and RBD, RBD and LSD.
  - 5.4 Simple numerical problems.

**T.Y.B.A. / 344**

6. Analysis of covariance (with one concomitant variable)
  - (10) 6.1 Situation where analysis of covariance is applicable.
  - 6.2 Model for covariance in CRD, RBD. Estimation of perimeters (derivations are not expected).
  - 6.3 Preparation of analysis of variance-covariance table, test for  $B=0$ , test for equality of treatment effects (computational technique only).

*Note* : For given data irrespective of the test of regression efficient (b) ANCOVA should be carried out.

7. Factorial Experiments : (14)
  - 7.1 General description of factorial experiments,  $2^2$  and  $2^3$  factorial experiments arranged in RBD.
  - 7.2 Definitions of main effects and interaction effects in  $2^2$  and  $2^3$  factorial experiments.
  - 7.3 Preparation of AV table by Yates procedure, tests for main effects and interaction effects.
  - 7.4 General idea of confounding in factorial experiments.
  - 7.5 Total confounding (confounding only one interaction): AV table, testing main effects and interaction effects.
  - 7.6 Partial confounding (confounding only one interaction per replicate) : AV table, testing main effects and interaction effects.
  - 7.7 Construction of layouts in total confounding and partial confounding for  $2^2$  and  $2^3$  factorial experiments.



**T.Y.B.A. / 345**

*Books Recommended*

1. Gass S.I. Linear Programming  
Methods and Applications  
McGraw Hill  
International Book Co.
2. Reinfield and Vogel Mathematical  
Programming
3. Maggu P.L. Operations Research and  
Linear Programming
4. Sasieni, Yaspan and  
Friedman Operations Research and  
Methods of Programming  
John Wiley and Sons, USA
5. Taha Operations Research  
The Macmillan Publishing  
Com. Inc. New York
6. Sancheti and Kapoor Operations Research
7. Wagner Principles of Operations  
Research with applications  
of managerial decisions  
Experimental design  
The Macillan Co., USA.
8. Fedrer W.T. Experimental design,  
ASIA Publishing House.
9. Conhran W.G. and  
Cox G.M. Design and analysis of  
experments. John, Wiley  
and sons, Inc. Proprietors,  
USA
10. Kenpthrne O. Design and analysis of  
experments. John, Wiley  
and sons, Inc. Proprietors,  
USA
11. Goon, Gupta,  
Dasgupta Fundamental of Statistics  
Vol II. The World Press  
Ltd., Calcutta
12. Dauglass C Design and analysis of  
Montgomery experiments
13. Das M.N. and Giri Design and analysis of  
N.C. experiments.

STATISTICS (SPECIAL)

PAPER-I : DISTRIBUTION THEORY

1. Multinomial Distribution (10)

1.1 Joint p.m.f.

$$P(X_1 = x_1, X_2 = x_2, \dots, X_k = x_k) = \frac{n! p_1^{x_1} p_2^{x_2} \dots p_k^{x_k}}{x_1! x_2! \dots x_k!}$$

$x_i = 0, 1, 2, \dots, n; i = 1, 2, \dots, k$   
 $x_1 + x_2 + \dots + x_k = n$   
 $p_1 + p_2 + \dots + p_k = 1$   
 $0 < p_i < 1, i = 1, 2, \dots, k$   
 $0 =$  elsewhere

Notation  $(x_1, x_2, \dots, x_k) \sim MD (n; P_1, P_2, \dots, P_k)$ .

1.2 Joint MGF of  $X_1, X_2, \dots, X_k$ .

1.3 Use of 1.2 to obtain means, variances, covariances, total correlation coefficients, multiple and partial correlation coefficients for  $k=3$ , univariate marginal distributions.

1.4 Variance covariance matrix. Rank of variance - covariance matrix and its interpretation.

1.5 Real life situations.

1.6 Examples and problems.

2. Uniform (Rectangular) Distribution (10)

2.1 p.d.f.f (x) =  $\frac{1}{b-a}, \forall a < x < b < \infty$   
 $= 0$  elsewhere.

Notation:  $X \sim U (a, b)$ .

**T.Y.B.A. / 347**

- 2.2 Distribution function, mean, variance, MGF, r-th raw moment.
  - 2.3 Standard form :  $X \sim U(0,1)$ .
  - 2.4 Uniform (0,1) as the distribution of  $F(X)$  where  $X$  is a continuous types r.v. with distribution function  $F(\cdot)$ , application to model sampling. Use of uniform (0,1) to generate integer valued random numbers.
  - 2.5 Distributions of  $X+Y, X-Y, XY, X/Y$ , for  $X$  &  $Y$  independent  $U(0,1)$  variates.
  - 2.6 Real life situations.
  - 2.7 Examples and problems.
3. Beta Distribution of First and Second Kind (10)
- 3.1 p.d.f. of beta distribution of the first kind

$$f(x) = \frac{x^{m-1} (1-x)^{n-1}}{B(m,n)}, \quad 0 < x < 1, m, n > 0.$$
$$= 0, \quad \text{elsewhere.}$$

Notation :  $X \sim b_1(m,n)$ .

p.d.f. of beta distribution of the second kind

$$f(x) = \frac{x^{m-1}}{B(m,n) (1-x)^{m-n}}, \quad 0 < x < 1, m, n > 0.$$
$$= 0, \quad \text{elsewhere.}$$

Notation:  $X \sim b_2(m,n)$ .

Relation between the two kinds of beta variates.

- 3.2 Nature of probability curves of  $b_1$  and  $b_2$  distributions.

**T.Y.B.A. / 348**

- 3.3 Mean, Variance, Mode, for both kinds beta distributions.
  - 3.4 Distributions of  $X/Y$  and  $X/(X+Y)$  where  $X$  and  $Y$  are independent gamma variates.
  - 3.5 Relation between distribution functions of a binomial variate and a beta variate of the first kind.
  - 3.6 Examples and problems.
4. Order Statistics (10)
- 4.1 Order Statistics for a random sample (r.s.) of size  $n$  from a continuous distribution, definition, derivation of distribution function and density function of the  $i$ th order statistics  $X(i)$ , particular cases for  $i=1$  and  $i=n$  Distribution of  $X(i)$  for uniform and exponential distributions.
  - 4.2 Derivation of joint p.d.f. of  $[X(i), X(i)]$ , distribution function of the sample range  $X(n)-X(1)$
  - 4.3 Distribution of the sample median.
  - 4.4 Examples and problems.
5. Chebychev's Inequality (4)
- 5.1 Chebychev's Theorem : If  $g(X)$  is a non-negative function of a r.v.  $X$  and if  $E[g(X)] < \infty$  and if  $k$  is a positive real number, then  $P[g(X) \geq k] \leq E[g(X)]/k$ .
  - 5.2 Chebychev's inequality for discrete and continuous distributions in the forms—  
$$P[|X - m| \geq k] \leq \frac{s^2}{k^2}$$
 and  
$$P[|X - m| \geq ks] \leq 1/k^2$$
 where  $m = E(X)$  and  $m^2$   
 $s^2 = \text{Var}(X) < \infty$ .
  - 5.3 Examples and problems.

**T.Y.B.A. / 349**

6. Central Limit Theorem (3)

6.1 Statement and proof of the central limit theorem for i.i.d. r.v.s based on MGF

6.2 Examples and problems.

7. Cauchy distribution (8)

7.1 p.d.f.

$$f(X) = \frac{1}{\pi} \frac{1}{1 + (x - m)^2}, \quad -\infty < x < \infty.$$

$$= 0 \quad \begin{array}{l} -\infty < m < \infty. \\ -1 > 0. \\ \text{elsewhere.} \end{array}$$

Notation :  $X \sim C(m, 1)$ .

7.2 Nature of the probability curve.

7.3 Distribution function, quartiles, non-existence of moments.

7.4 Additive property for two independent Cauchy variates (Statement only), Statement of distribution of the sample mean.

7.5 Relationship with uniform and Students't' distributions.

7.6 Examples and problems.

8. Laplace Distribution (Double Exponential) (10)

8.1 p.d.f.

$$f(X) = \frac{1}{2} \exp[-1/2|x-m|], \quad -\infty < x < \infty.$$

$$= 0 \quad \begin{array}{l} -\infty < m < \infty. \\ -1 > 0. \\ \text{elsewhere.} \end{array}$$

Notation :  $X \sim L(m, 1)$ .

**T.Y.B.A. / 350**

- 8.2 Nature of probability curve.
- 8.3 Distribution function, quartiles.
- 8.4 MGF, CGF, moments and cumulants,  $b_1, b_2, g_1, g_2$ .
- 8.5 Laplace distribution as the distribution of the difference of two i.i.d. exponential variates with mean  $\alpha$ .
- 8.6 Examples and problems.

9. Lognormal Distribution (8)

9.1 p.d.f.

$$f(X) = \frac{1}{(x-a) s \sqrt{2\pi}} \exp \frac{1}{2 s^2} [\log (x-a)-m]^2, a < x < \infty$$

$$a < m < \infty$$

$$s > 0.$$

$$= 0 \quad \text{elsewhere.}$$

Notation :  $X \sim \text{LN} ( a, m, s^2 )$ .

- 9.2 Nature of probability curve.
  - 9.3 Moments (r-th moment about  $X=a$ ), first four moments  $b_1$  and  $g_1$  coefficients, quartiles.
  - 9.4 Relation with  $N(m, s^2)$  distribution.
  - 9.5 Examples and problems.
10. Truncated Distribution (8)
- 10.1 Truncated distribution as conditional distribution, truncation to the right, left and on both sides.
  - 10.2 Binomial distribution  $B (n, p)$  left truncated at  $X=0$  (value zero not observable), its p.m.f., mean, variance.

**T.Y.B.A. / 351**

10.3 Poisson distribution  $P(m)$ , left truncated at  $X=0$  (value zero not observable), its p.m.f., mean, variance.

10.4 Normal distribution  $N(m, s^2)$  truncated

- (i) to the left at  $X=a$
- (ii) to the right at  $X=b$
- (iii) to the left at  $X=a$  and to the right at  $X=b$ , its p.d.f. and mean.

10.5 Examples and problems.

11. Bivariate Normal Distribution (11)

11.1 p.d.f. of a Bivariate normal distribution

$$f(X) = \frac{1}{2\pi s_1 s_2 \sqrt{1-r^2}} \exp \left\{ -\frac{1}{2(1-r^2)} \left[ \frac{x-m_1}{s_1} + \frac{y-m_2}{s_2} - 2 \frac{x-m_1}{a_1} x - \frac{y-m_2}{a_1} x \right] \right\}, \quad -\infty < x, y < \infty .$$

$- \infty < m_1, m_2 < \infty .$   
 $s_1, s_2 > 0.$   
 $- 1 < r < 1 .$   
 $= 0$  elsewhere.

Notation :  $(X, Y) \sim \text{BN}(m_1, m_2, s_1^2, s_2^2, r)$ .

Marginal and conditional distribution, identification of parameters, regression of Y on X and X on Y, independence and uncorrelatedness, MGF and moments.

11.2 Cauchy distribution as the distribution of  $Z=X/Y$  where

Notation :  $(X, Y) \sim \text{BN}(O, O, s_1^2, s_2^2, r)$ .

11.3 Examples and problems.

**T.Y.B.A. / 352**

12. Finite Markov Ghains (20)
- 12.1 Definition of the state space of a sequence of discrete r.v.s. Definition of a finite markov chain. Simple examples. Definition of one step transition probability. Definition of stationary transition. Definition of a stochastic matrix P. Definition of a transition probability matrix P. Definition of initial distribution of n step transition probabilities. Chapman- Kolmogorov equations. Simple problems- Proof of the theorem : the step transistion probability matrixp (n) is the n th power of P.
- 12.2 Concept of a finite random walk, gambler's ruin problem. Transition probability of the ultimate ruin of the gambler and its adversary. Expected duration of the game.
- 12.3 Examples and problems.

*Books Recommended*

1. H. Cramer : Mathematical Methods of Statistics, Asia Publishing House, Mumbai.
2. Mood A.M., Graybill F. and Bose D.C. : Introduction to Theory of Statistics, (III Edn.) MC-Graw Hill Series.
3. B.W. Lindgren : Statistical Theory (Third Edition), Collier Macmillan International Edition. Macmillan Publishing Co. Inc., New York
4. Hogg R.V. and Carig A.T : Introduction to Mathematical Statistics (III Edn)., Macmillan Publishing Co. Inc., 86, 3rd Avenue, New York, 10022.



**T.Y.B.A. / 353**

5. Sanjay Arora & Bansi Lal : New Mathematical Statistics (I Edn.), Satya Prakashan, 16/17698, New Market, New Delhi, 5 (1989).
6. S.C. Gupta and V. K. Kapoor : Fundamentals of Mathematical Statistics, Sultan Chand and Sons, BB, Daryaganj, New Delhi-2.
7. V.K.Rohotagi : An Introduction to Probability Theory and Mathematical Statistics, Wiley Eastern Ltd., New Delhi.
8. J. Medhi : Stochastic Process, Wiley Eastern Ltd., New Delhi.
9. Hoel, Port, Stone : Introduction to Stochastic Process, Houghton Mifflin.
10. Feller W. : An Introduction to Probability Theory and its applications, Vol.I, Wiley Eastern Ltd., Mumbai.

**STATISTICS (Special)**

**Paper II : Practicals**

- | Sr. No. | Title of the Experiment   |
|---------|---|
| 1.      | Fitting of log-normal distribution.   |
| 2.      | Fitting of truncated binomial and truncated Poisson distribution.               |
| 3.      | Applications of Markov chain, random walk, Gambler's ruin problem.              |
| 4.      | Construction of confidence interval for proportions, difference of proportions. |
| 5.      | Construction of confidence interval for mean, difference of means.              |

**T.Y.B.A. / 354**

6. Testing of hypothesis I
7. Testing of hypothesis II
8. Non-parametric tests I (sign, Wilcoxon's signed rank, Mann Whitney run tests)
9. Non-parametric tests II ( Median, Kolmogorov-Smirnov tests)
10. SPRT (Bernoulli, Poisson and Normal)
11. Graphical Method for LPP, simplex method for LPP.
12. Simplex Method (Duality)
13. Transportation Problem.
14. Assignment Problem.
15. Analysis of CRD.
16. Analysis of RBD, efficiency.
17. Analysis of LSD, efficiency.
18. Analysis of Covariance in CRD and RBD.
19. Analysis of  $2^3$  factorial experiments arranged in RBD.
20. Analysis of total and Partial confounding in  $2^3$  factorial experiments in RBD.

## (37) Mathematical Statistics (General)

### PAPER - I : STATISTICAL INFERENCE

- Note* 1. : Mathematical Statistics can be offered only as a General level subject,
2. A student of Three Year B.A. Degree course offering Mathematical Statistics will not be allowed to offer Applied Statistics in any of the Three Years of the course.

1. Point Estimation (24)

1.1 Notion of a parameter, parameter space, general problem of estimation : estimating an unknown parameter by point and interval estimation.

1.2 Point Estimation : Definition of an estimator, distinction between estimator and estimate, illustrative examples.

1.3 Definition of an unbiased estimator, biased estimator positive and negative bias, illustrations and examples (these should include unbiased and biased estimators for the same parameters). Proofs of the following results regarding unbiased estimators :

(a) Two distinct unbiased estimators of  $\theta$  ( $\varphi$ ) give rise to infinitely many unbiased estimators of  $\theta$  ( $\varphi$ ).

(b) If  $T$  is an unbiased estimator of  $\theta$ , then  $\mathcal{E}(T)$  is an unbiased estimator of  $\mathcal{E}(\theta)$  provided  $\mathcal{E}(-)$  is a linear function.

Discussion of the following results :

(a) If  $T$  is an unbiased estimator of  $\varphi$  then  $\mathcal{E}(T)$  need not be an unbiased estimator of  $\mathcal{E}(\varphi)$ .

Use of this result for the functions  $\varphi^2$ ,  $e^{-\varphi}$ .

(b) Sample Standard deviation is a biased estimator of population standard deviation.

**T.Y.B.A. / 356**

- 1.4 Relative efficiency : Relative efficiency of  $T_1$  w. r.  $T_2$ ,  $\text{Var}(T_2) / \text{Var}(T_1)$ , where  $T_1$  and  $T_2$  are unbiased estimators. Use of mean square error to modify the uniformly minimum variance unbiased estimator (UMVUE), uniqueness of UMVUE whenever it exists.
- 1.5 Concept and definition of sufficiency, statement of Neyman's factorization theorem. (Proof for discrete case only). Proofs of the following properties of sufficient statistics :
- (i) If  $T$  is sufficient for  $\varphi$ , then  $\mathcal{E}(T)$  is also sufficient for  $\varphi$  provided  $\mathcal{E}$  is one to one and on to function.
  - (ii) If  $T$  is sufficient for  $\varphi$ , then  $T$  is also sufficient for  $\mathcal{E}(\varphi)$ .
- 1.6 Definition of a likelihood as a function of the parameter  $\varphi$  for a random sample from (i) discrete (ii) continuous distribution, definition of information function. Amount of information regarding parameter contained in a statistic  $T = T(x_1, x_2, \dots, x_n)$  and in a sufficient statistic  $T$ .
- 1.7 Examples and problems.
2. Cramer-Rao Inequality (8)
- 2.1 Statement and proof Cramer-Rao inequality. Definition of minimum variance bound unbiased estimator (MVBUE) of  $\mathcal{E}(\varphi)$ .  
Proofs of the following results :
- 1. If MVBUE exists for  $\varphi$  then MVBUE exists for  $\mathcal{E}(\varphi)$  if  $\mathcal{E}$  is a linear function.
  - 2. If  $T$  is MVBUE for  $\mathcal{E}(\varphi)$ , then  $T$  is sufficient for  $\varphi$ .
- 2.2 Examples and problems.

**T.Y.B.A. / 357**

3. Methods of Estimation (16)
  - 3.1 Method of maximum likelihood; Derivation of maximum likelihood estimators (m.l.e.) for two unknown parameters only for normal distribution). Use of iterative procedure to derive m.l.e. of location parameter ( $m$ ) of Cauchy distribution. Invariance property of m.l.e., relation between m.l.e. and sufficient statistic.
  - 3.2 (a) m.l.e. of  $\theta$  in uniform distribution over
    - i.  $(0, \varphi)$ ,
    - ii.  $(-\varphi, \varphi)$ .(b) m.l.e. of  $\varphi$  in  $f(x, \varphi) = \text{Exp} \{- (x - \varphi)\}$ ,  $x > \varphi$ .
  - 3.3 Method of moments : Derivation of moment estimators for standard distributions. Illustration of situations where m.l.e. and moment estimators are distinct and their comparison using mean square error.
  - 3.4 Examples and problems.
4. Asymptotic Behaviour of an Estimator (6)
  - 4.1 Consistency : Definition, Proof of the following theorem: A biased estimator is consistent if its bias and variance both tend to zero as the sample size tends to infinity. Statement of asymptotic properties of m.l.e.
  - 4.2 Examples and problems.
5. Interval Estimation (12)
  - 5.1 Notion of interval estimation, definition of confidence interval, confidence bounds. Definition of pivotal quantity and its use in obtaining confidence intervals and bounds.

**T.Y.B.A. / 358**

5.2 Interval estimation for the following cases :

- (i) Mean ( $\mu$ ) of normal distribution ( $\sigma^2$  known and  $\sigma$  unknown)
- (ii) Variance( $\sigma^2$ ) of normal distribution ( $\mu$  known and  $\mu$  unknown).
- (iii) Difference of two means  $\mu_1 - \mu_2$ (a) for a sample from bivariate normal population (b) for samples from two independent normal populations.
- (iv) Mean of exponential distribution.
- (v) Population proportion and difference of two population proportions in case of two independent large samples.
- (vi) Population quartiles using order statistics.

5.3 Examples and problems.

6. Parametric Tests (18)

- 6.1 (a) Statistical hypothesis, Problem of testing of hypothesis. Definition and illustrations of (1) simple hypothesis (2) composite hypothesis (3) test of hypothesis (4) critical region (5) type I and type II error. Problem of controlling the probabilities of errors of two kinds.
  - (b) Definition and most powerful level test of simple null hypothesis against simple alternative hypothesis. Examples of construction of most powerful level test.
- 6.2 Definition of most powerful level test of simple null hypothesis against simple alternative. Statement of Neyman-Pearson (N-P) lemma for constructing the most powerful level a test of simple null hypothesis against simple alternative hypothesis. Examples of construction of most powerful level test.

**T.Y.B.A. / 359**

- 6.3 Power function of a test, power curve, definition of uniformly most powerful (UMP) level  $\alpha$  test use of N-P lemma for constructing UMP level  $\alpha$  test for one sided alternative.
- 6.4 Examples and problems.
- 7. Non-Parametric Tests (18)
  - 7.1 Idea of non-parametric problems. Distinction between a parametric and a non-parametric problem. Concept of distribution free statistic. One tailed and two tailed test procedure of (i) Sign test (ii) Wilcoxon's signed rank test (iii) Mann-Whitney test (iv) Median test (v) Run test, one sample and two sample problems.
  - 7.2 Kolmogorov-Smirnov test for completely specified univariate distribution (only one Sample problem).
  - 7.3 Examples and problems.
- 8. Sequential Tests (8)
  - 8.1 Sequential test procedure for simple null hypothesis against simple alternative hypothesis and its comparison with fixed samples size Neyman Pearson test procedure. Definition of Wald's SPRT of strength  $(\alpha, \beta)$  Illustration for standard distributions like Bernoulli, Poisson, Normal and Exponential. Graphical and tabular procedures for carrying out the test.
  - 8.2 Examples and problems.

*Books Recommended*

- 1. Lindgren B. W. : Statistical Theory (Third edition), Collier Macmillan International Edition, Macmillan Publishing Co. Inc., New York.

**T.Y.B.A. / 360**

2. Mood A. M., Graybill F., Bose D. C. : Introduction to the theory of Statistics (Third edition), International Student Edition, McGraw Hill Kogakusha Ltd.
3. Hogg P.V. and Craig A.J. : Introduction to Mathematical Statistics, IVth Edition, Collier Macmillan International Edition, Macmillan Publishing Co. Inc., New York.
4. Siegel S. : Non-Parametric Methods for the Behavioural Sciences, Inter-national Student Edition, McGraw Hill Kogakusha Ltd.
5. Hoel, Port, Stone : Introduction to Statistical Theory, Houghton Miffling Company (International Dolphin Edition)
6. J.D. Gibbons : Non-Parametric Statistical Inference McGraw Hill Book Company, New York.
7. Daniel : Applied Non-Parametric Statistics, Houghton Mifflin Company, Boston.
8. V.K.Rohotagi : Statistical Inference, Wiley Eastern Ltd., New Delhi.
9. Kendall & Stuart : The advanced Theory of Statistics, Vol.1 Charles Griffin & Company Ltd., London.
10. Dudewitz and : Modern Mathematical Statistics, Mishra John Wiley and Sons Inc., New York.



**T.Y.B.A. / 361**

11. Kale B.K. : A first course in Parametric Inference, Narosa Publishing House (1998).

**Applied Statistics**

- Note :*
- (1) "Applied Statistics" can be offered only as a General level subject.
  - (2) A student of the Three-Year B.A. Degree Course offering "Applied Statistics" will not be allowed to offer "Mathematical Statistics" and / or "Statistics" in any of the three years of the Course.

## (38) Applied Statistics

### PAPER I : APPLICATIONS OF STATISTICS

1. Continuous-Type Distributions : (15)

1.1 Definition of continuous type of r.v. through p.d.f. Statement of properties of distribution function of continuous type r.v.s.

1.2 Normal distribution :

$$f(X) = \frac{1}{\sigma \sqrt{2\pi}} \exp \left\{ -\frac{(x-m)^2}{2\sigma^2} \right\} \quad -\infty < x < \infty.$$

$$\quad \quad \quad -\infty < m < \infty.$$

$$\quad \quad \quad \sigma > 0.$$

Identification of the parameters  $m$  and  $\sigma^2$ , standard normal distribution, properties of normal distribution, the graph of p.d.f., nature of probability curve.

1.3 Computation of probabilities using normal probability table.

1.4 Examples and problems.

2. Tests of Significance : (20)

2.1 Notion of a statistics as a function  $T(X_1, \dots, X_n)$  and its illustrations.

2.2 Sampling distribution of  $T(X_1, \dots, X_n)$  Notion of standard error of a statistics.

2.3 Notion of hypothesis, Critical region, level of significance.

2.4 Large Sample tests for

(i)  $H_0: m = m_0, \quad H_1: m \neq m_0, m > m_0, m < m_0$

(ii)  $H_0: m_1 = m_2, \quad H_1: m_1 \neq m_2, m_1 > m_2, m_1 < m_2$

**T.Y.B.A. / 363**

(iii)  $H_0: P = P_0, \quad H_1: P \neq P_0, P > P_0, P < P_0$

(iv)  $H_0: P_1 = P_2, \quad H_1: P_1 \neq P_2, P_1 > P_2, P_1 < P_2.$

2.5 Examples and problems.

3. Demography : (15)

3.1 Measures of mortality : Crude Death Rate (CDR); Standard Death Rate (STDR) based on age specific death rate direct and indirect methods. Comparative study of these measures, numerical problems.

3.2 Measures of Fertility : Crude Birth Rate (CBR); General Fertility Rate (GFR); Age-Specific Fertility Rate (ASFR); Total Fertility Rate (TFR); comparative study of these measures. Numerical problems.

3.3 Reproduction Rate : Gross Reproduction Rate (GRR) and Net Reproduction Rate (NRR). Comparison and Interpretation. Numeric problems.

4. Life Tables : (5)

4.1 Constructioun and use of a complete life table.

4.2 Numerical Problems.

5. Small Sample Tests : (20)

5.1 t-test for

( i )  $H_0: m = m_0, \quad H_1: m \neq m_0, m > m_0, m < m_0$

( ii )  $H_0: m_1 = m_2, \quad H_1: m_1 \neq m_2, m_1 > m_2, m_1 < m_2.$

(iii) Paired observations.

(iv)  $H_0: d = d_0, H_1: d \neq d_0.$

**T.Y.B.A. / 364**

5.2 Tests for  $H_0 : s^2 = s_0^2$ ,  $H_1 : s^2 \neq s_0^2$

$$s^2 > s_0^2$$

$$s^2 < s_0^2$$

5.3 Tests for  $H_0 : s_1^2 = s_2^2$ ,  $H_1 : s_1^2 \neq s_2^2$

$$s_1^2 > s_2^2$$

$$s_1^2 < s_2^2$$

5.4 Chi-square test of goodness of fit.

5.5 Chi-square test for independence of attributes :  
Chi-square test for independence of  $2 \times 2$   
contingencies table (without proof).

Yate's correction not expected.

6. Analysis of Variance Techniques :

6.1 Concept of analysis of variance.

6.2 One-way classification : break up of total sum of squares, analysis of variance table, test of hypotheses :

(i) equality of several means.

(ii) equality of two means.

Numerical problems.

7. Statistical Quality Control :

7.1 Meaning and purpose of statistical quality control.

7.2 Control chart : chance, causes and assignable causes of quality variations, statistical basis of control chart (connection with test of hypothesis is NOT expected). Control limits (3-sigma limits only). Criteria for judging lack of control.

**T.Y.B.A. / 365**

- (i) one or more points outside the control limits, and
- (ii) non-random variations within the control limits : such as run of seven or more points on either side of the control line, presence of trend or cycle.

- 7.3 Control chart for variables :  
Purpose of R-chart and X-chart. Construction of R-chart X-chart when standards are not given. Plotting the sample mean and ranges on X and R charts respectively. Necessity for plotting R-chart. Revision of R-chart (when and why) ? Drawing conclusion about state of process. Revision of X-chart, control limits for further production.
- 7.4 Control chart for fraction defective (P-chart) only for fixed size. Determination of central line, control limits on p-chart. Plotting of sample fraction defectives on p-chart. Revision of p-chart, determination of state of control of the process and interpretation of high and low spots on p-chart. Estimation of central line and control limits for further production.
- 7.5 Control chart for number of defects per unit (C-chart).  
Construction of c-chart when standards are not given. Plotting of number of defects per unit on c-chart determination of state of control of the process revision of control limits for future production.
- 7.6 Numerical problems based on control charts.
- 7.7 Identification of real life situations where these charts can be used.

- Note :*
- (1) Proofs or derivations of results are not expected.
  - (2) Stress should be given on numerical problems.

**T.Y.B.A. / 366**

*Books Recommended*

- (1) Larson H. J. : Introduction to Probability Theory and Statistical Applications - A Wiley International Edition.
- (2) Meyer P. L. : Introductory Probability Theory and Statistical Applications. - Addison - Wesley Publishing Company.
- (3) Hoel, P. G. : Introduction of Mathematical Statistics, John Wiley and Sons Company, New York.
- (4) Walpole : Introduction to Statistics, Macmillan Publishing Co., New York.
- (5) Lipschutz : Probability and Statistics.
- (6) Goon, Gupta and Dasgupta : Fundamentals of Statistics, Vol. I., The World Press Pvt. Ltd., Calculatta.
- (7) J. Newmark : Introduction to Statistics.
- (8) Miller and Freund : Modern Elementary Statistics.
- (9) Gupta S. P. : Statistics Methods, Sultan Chand and Sons, Delhi.
- (10) Gupta and Kapoor : Fundamentals of Applied Statistics, Sultan Chand and Sons, Delhi.
- (11) F. Yates : Sampling Methods for Census and Surveys, Charles Griffin and Company Ltd.
- (12) Elbol Grant : Statistical Quality Control.
- (13) A. J. Duncan : Quality Control and Industrial Statistics, D. B. Taraporevala Sons and Co. Pvt. Ltd., Bombay.

T.Y.B.A. / 367

## **(39) Mathematical Pre-Requisites**

### SECTION I

The Fundamentals of Matrix or Linear Algebra. The Role of Matrix Algebra. Definitions and Terms. Addition and Subtraction of Matrices. Scalar Multiplication. Vector Multiplication. Multiplication of Matrices. Commutative, Associative and Distributive Laws in Matrix Algebra. Identity and Null Matrices. Matrix Expression of a Set of Linear Equations. Row Operations. Augmented Matrix. Gaussian Method of Solving Linear Equations.

#### **Matrix Inversion**

Determination and Nonsingularity. Higher-Order Determinations. Minors and Cofactors. Laplace Expansion. Properties of a Determination. Cofactor and Adjoint Matrices. Inverse Matrices. Solving Matrix Equations with the Inverse. Cramer's Rule for Matrix Solutions. The Gaussian Method of Inverting a Matrix.

#### **Special Determinants and Matrices and their use in Economics**

The Jacobian. The Hessian. Third-Order Hessians. The Bordered Hessian for Constrained Optimization. Derivation of a Marshallian Demand Function. Input-Output Analysis.

Characteristic Roots and Vectors (Eigen values and Eigen vectors).

Transformation Matrix.

### SECTION II

#### **Linear Programming : A Graphic Approach**

Graphic solutions. The Extreme Point Theorem. Slack and Surplus Variables. The Basis Theorem.

**T.Y.B.A. / 368**

**Linear Programming : The Simplex Algorithm**

Simplex Algorithm : Maximization. Marginal Value or Shadow Pricing, Simplex Algorithm : Minimization.

**Linear Programming : The Dual**

The Dual. Rules of Transformation to obtain the Dual. The Dual Theorems. Advantages of the Dual. Shadow Prices in the Dual. Shadow Prices and the Lagrangian Multiplier.

*Text Book*

Mathematics for Economics — Edwerd T. Dowling  
(Schaum's Outline Sries, Mc Graw Hill Book Company).



**T.Y.B.A. / 369**

## **(40) Statistical Pre-requisites**

**(General) (G-3)**

The Courses in Mathematical and Statistical Pre-requisites may be offered only by candidates offering one of the Social Sciences as their Special subject at the B.A. Degree Examination.

The Courses in Mathematical and Statistical Pre-requisites cannot be offered by those who offer any of the Courses in the Mathematics/Statistics Groups for their B.A. Examination.

### **Correlation and Regression with Application to Production Function Analysis**

- (1) Correlation and Regression.
- (2) Normal Correlation.
- (3) Further Theory of Correlation.
- (4) Partial Correlation.
- (5) Correlation and Regression : Some Practical Problems.
- (6) Miscellaneous Theorems involving the correlation co-efficient.
- (7) Simple Curve Fitting.
- (8) Forms of Production Functions.
- (9) Data Analysis for Production Function Estimation.
- (10) Economic Specification of the Production Function.
- (11) Miscellaneous Empirical Problems relating to the Estimation of Production Functions.

**T.Y.B.A. / 370**

*Reference*

G. Udney Yale and M. G. Kendall : Introduction to the Theory of Statistics, Chs. 9 to 15.

Earl O. Heady and John L. Dillion : Agricultural Production Functions, Chs. 3, 4, 6 and 7.

Also See, M. G. Kendall and Allan Stuart : Advanced Theory of Statistics, Vol. I, Chapter V.

**Sampling Methods for Census and Surveys**

- (1) Place of Sampling in Census and Survey Work.
- (2) Requirements of a Good Samples.
- (3) Structure of Various Types of Samples.
- (4) Practical Problems arising in the Planning of a Survey.
- (5) Problems arising in the Execution and Analysis of Survey.
- (6) Estimation of the Population Values.
- (7) Estimation of the Sampling Error.
- (8) Efficiency of a Survey Design.

*Reference*

Yates, Sampling Methods for Censuses and Surveys, Chaps. 1 to 8.

**T.Y.B.A. / 371**

**(41) Commerce**

**G-3 : Business Organization**

(1) *Nature and Scope :*

Business-Definition-Divisions-Objectives-Requisites for Success in Business-Essential Qualities for a successful businessmen-Social responsibilities of business.

(2) *Management and Administration :*

Organization - Management and Administration, concepts and meaning-Elements of Organization-Importance and Scope of organization.

(3) *Organization :*

Approaches to Organization-Principles of Organization-Processes of Organization. Meaning and Importance.

(4) *Internal Organization :*

Types of Internal Organization : Line staff, line and Staff-Committee System- Organizational relationships, formal, informal, Functional staff and Inter-relationships-Design of an ideal organizational structure-Manual and charts.

(5) *Public Enterprises :*

Meaning-Forms of Organization - Merits and demerits.

(6) *Factory Organization :*

Factors responsible for location of a plant-plant layout-Types of layout. Organization and control of purchases and stores-Materials handling.

(7) *Organization of Production :*

Manufacturing Processes-routing and scheduling of production-Despatching and follow up-Labour Productivity.

**T.Y.B.A. / 372**

- (8) *Organization of Finance* :  
Capital-Types of Capital-Methods of raising finance-  
Owned and Borrowed Capital-Ploughing back of profit sources  
of long and short term finance.
- (9) *Organization of Personnel* :  
Employment of Labour-Recruitment Selection and  
Placement-Training-labour Absenteeism and turn over - methods  
of wage payments-Profit sharing, Co-partnership and Bonus.
- (10) *Industrial Relations* :  
Concepts of Industrial Relationship-causes of Industrial  
disputes and their settlement-Trade unions and Employer's  
Association-Labour Management Co-operation-Workers'  
participation in Management-Labour Welfare Schemes.

*Recommended Books*

- (1) Kinball D. S. and Kinball D. S. Jr. - Principles of  
Industrial Organization, Vakils Feffer and Simons,  
Bombay, McGraw-Hill, New York.
- (2) Batty J.- Industrial Administration and Management, E.  
L. B. S., London.
- (3) Spriegal, W. R. and Lansburgh - Industrial Management,  
John Wiley, New York, Charles E. Tuttle, Tokyo.
- (4) Bhushan Y. K. - Fundamentals of Business Organization  
and Management, Sultan and Chand, Delhi.
- (5) Sinha J. C. and Mugali V. N.- Principles and Practice of  
Business Organization, R. Chand, Delhi.
- (6) Deshpande A. S. - Factory Management and Business  
Organization, Vora and Co., Bombay.

## (४२) योगविद्या (सामान्यस्तर) (जी-३)

### व्यावहारिक योग

थिअरी :

१. योग आणि त्याचा व्यावहारिक उपयोग : योगाच्या व्यावहारिक अंगाची व्याप्ती व मर्यादा, अशा उपयोगाचे सामान्य ध्येय आणि विशेष उद्देश.

२. योग आणि त्याचे शारीरिक स्वास्थ्य : स्वास्थ्याची संकल्पना, शरीरस्वास्थ्याचे घटक, शरीरस्वास्थ्याच्या क्षमतेशी संबंध, योगात चर्चिलेले स्वास्थ्य व क्षमता यांची क्षेत्रे, योगाद्वारे स्वास्थ्याच्या संवर्धक, प्रतिबंधक आणि रोगनिवारक पैलूंचा विचार.

३. योग आणि मानसिक स्वास्थ्य : आजच्या काळात मानसिक स्वास्थ्याची निकड व महत्त्व, मानसिक स्वास्थ्य आणि शारीरिक स्वास्थ्य यांचा परस्परसंबंध, मानसिक स्वास्थ्यातील समस्यांचे स्वरूप, यौगिक प्रक्रियांद्वारे मानसिक स्वास्थ्याच्या संवर्धन, प्रतिबंधक आणि रोगनिवारण बाजूंचा विचार.

४. योग आणि व्यक्तिगत कार्यक्षमता : व्यक्तिगत कार्यक्षमतेचा सामान्य दृष्टीने विचार, तिची व्यक्तिगत आवश्यकतेनुसार वैशिष्ट्ये, कार्यक्षमता वाढविण्याच्या निरनिराळ्या पद्धती, कार्यक्षमता वाढविण्यासाठी योगाचे महत्त्व.

५. योग आणि क्रीडा : खेळाची नैसर्गिक गरज, खेळाची समाजमान्यता, खेळाचे प्रकार, खेळातील मूलभूत कौशल्याची क्षमता, कुशलता येण्यासाठी लागणारे आधारभूत गुण, क्रीडा जीवनक्रमाच्या संवर्धनाचा मनोकायिक आधार आणि निरनिराळ्या खेळांना लागणाऱ्या गुणांच्या वाढीत योगप्रक्रियांचा वाटा.

६. योग आणि प्रशासकीय सेवा : प्रशासकांची समस्या, त्यांचे दगदगीचे व सतत ताणाचे जीवन, चिंता व परिणामी येणारी ग्लानी, कृत्रिम उत्तेजकांचा उपयोग व त्यांचे दुष्परिणाम, प्रशासकांच्या समस्या सोडविण्यासाठी योगाचा उपयोग.

७. योग आणि वार्धक्य : वयोमान - मानवी कार्यक्षमतेच्या सम्यक चित्रातील एक घटक, शरीरमानात वयोमानानुसार होणारे बदल, जीवनचर्या आणि प्रौढ व वृद्ध अवस्थेतील समस्या, या समस्या सोडविण्यात योगाचे साहाय्य.

## T.Y.B.A. / 374

८. योग आणि सामाजिक समस्या : आधुनिक जीवनाचा गुंता, आधुनिक जीवनावर परिणाम करणारे विविध घटक - चिंता, उदासीनता, ग्लानी, द्वंद्वे, दगदग आणि तणाव उत्पन्न करणाऱ्या मनोकायिक समस्या आणि त्यांचे परिणाम होणारे विविध सामाजिक गुन्हे आणि मादक द्रव्यांचे सेवन, ही परिस्थिती सुधारण्यासाठी योगाचा उपयोग.

### प्रात्यक्षिक :

शीर्षासन, मयूरासन, कूर्मासन, उत्तमकूर्मासन, जालंदर - बंध, मत्स्येन्द्रासन, जिह्वाबंध नौलीचालन, धोती-वमन, दंड, वस्त्र, ओम् जपाचा अभ्यास, ध्यानोपयोगी आसनांचा ३० मिनिटे बसण्याचा अभ्यास.

### *Books Recommended*

1. Kuvalayananda and Vinekar : Yogic "Therapy", New Delhi : Central Bureau of Health Services.
2. Kend hH : "Day by Day Yoga", London: Hamlyn.
3. Proceedings of the Seminar on Yoga Science and Man, New Dehli : Central Council for Research in Indian Medicine and Homoeopathy.
4. Sinha : A. K., "Perspectives in Yoga", Varanasi : Bharat Manisha.
5. Goswami, S.S. : "Hathayoga".
6. Yogendra (Ed.) : "Yoga Essays", Bombay.

**T.Y.B.A. / 375**

## **(43) Social Work**

### I. Introduction to Youth Welfare.

Definition of Youth and Welfare, an attempt to define youth-Age as criteria-problems in defining Youth-roles, functions and responsibilities-childhood-adolescence-Preadulthood-Adulthood.

### II. Classification of Youth and their Problems :

Urban, Rural, Tribal-Educated and Illiterated-Employed-Unemployed-married Youth and Single-problems of backward class youths-economics, social and the handicapped youth.

### III. Needs of Youth :

Dev. of good health and Dev. of good character-group life-adult participation- search for larger objectives-sex education-Job opportunities and vocational training.

### IV. Service for the Youth :

Govt. Voluntary-Establishment of Youth Club-Mahila Mandal-roles and functions.

### V. Training for leadership :

Training for Youth leadership-methods-techniques.

### *Books Recommended*

1. G. R. Madan : Indian Social Problems, Volume II, Chapter VI, Pages 131-151.
2. B. G. Desai : The Emerging Youth.
3. L. S. Mehra : Youth in Modern Society.
4. J. W. Airan : The Nature of Leadership.

**T.Y.B.A. / 376**

**Introduction to Rural and Urban Welfare**

1. Similarity and differences in rural and urban way of living.
2. Problems and needs of rural communities.
3. Agencies for rural welfare.
4. Problems and needs of urban communities.
5. Agencies for urban welfare.

*Books Recommended*

1. ग्रामीण समाजशास्त्र - गुरुनाथ नाडगोडे, काँटिनेंटल प्रकाशन, पुणे.
2. Rural Sociology - Dr.A.R.Desai.
3. Problems of Rapid Urbanization in India - Dr. Jal F. Balsara.

**SOCIAL WORK**

**Survey Methodology and Data Collection Methods**

1. Utility of Social Research.
2. Hypothesis-Their nature and role in social research.
3. Data Collection-The sources of data collection, Primary and Secondary Sources.
4. Observation, Interview Schedule, Questionnaire.

*Books Recommended*

1. Scientific Social Surveys and Research—Fauline V. Young, Prentice-Hall of India Pvt. Ltd., New Delhi 110001 (1977).



**T.Y.B.A. / 377**

2. Research Methods Behavioural Sciences —Leon Festinger, Daniel Katz, Ameerind Publishing Co. Pvt. Ltd., Bombay.
3. Methodology and techniques of social research—Wilkinson and Bhandarkar, Himalaya Publishing House, Bombay 400054.
4. Research Methods in Social Research — Good and Hatt, McGraw-Hill, Kogakusha Ltd., New Delhi.
5. सामाजिक संशोधन पद्धती - प्रा. पु. ल. भांडारकर, महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

**Family Planning and Family Welfare :**

1. Institution of family.
2. Problems faced by Indian family.
3. Concept of family welfare.
4. Family planning.
5. Methods of family planning.
6. Difficulties in implementing family.

Planning programmes and suggestions for making the programme effective.

*Books*

1. Marriage and Family in India.
2. India's Population Problems — S. N. Agurwala, Tata McGraw Hill Publishing Co. Ltd., New Delhi (1975)
3. Population Growth and Economic Development in Low Income Countries : A case study of India's prospects — Coale A. J. and Moover E.M., Princeforn Uni. Press (1972) (Pages 3 to 55).

**Introduction to Social Work Methods**

History and historical background of social work in India.  
Concept of Social Work. Principles of Social Work.

*Social Work Methods :*

1. *Case Work* : Principles of Social Case Work, History and study of the case, Social Treatment, Interviewing Client, Diagnosis of the case, Recording in Social Work, Purpose and importance of Recording, Principles of Case Work Records.

2. *Social Group Work* : History, Development, Definition, Functions of the Group-Work, Purpose of Group-Work, Basic Philosophy underlying Group-Work, Principles of Group-Work. Evaluation of a Group-Work and Development, Role of Group Worker.

3. *Community Organization* : Definition of Community Organization, Steps in Community Organization, Principles of Community organization. Fields of work in the process of Community Organization.

4. *Social Action* : Methods and Techniques of Social Action.

*Books*

1. Methods and Fields of Social Work in India — Dr. K. K. Jacob.
2. Concepts and Methods of Social Work — Walter A. Friedlander.
3. Concepts of Social Work Methods — D'Paul Choudhary.
4. Social Work — Stroup.
5. Social Case Work — Helen Harries Perlman.

**T.Y.B.A. / 379**

**Management of Social Welfare Institutions**

1. Concept - Definition of Social Welfare Institution.
2. Functions of Administration and Managing Committee, President/Chairman, Secretary and Treasurer.
3. Areas of Administration :
  - (i) Planning and Policy making.
  - (ii) Organization of Agency.
  - (iii) Constitution and functions of the Executive Board.
  - (iv) Staff appointment.
  - (v) Budgeting.
  - (vi) Fund raising.
  - (vii) Staff supervision.
  - (viii) Evaluation.

*Book*

Social Welfare Administration — D. Paul Choudhari.

T.Y.B.A. / 380

**(44) Public Administration (G-3)**

**Comparative Public Services and Administration**

**Paper I**

*Section I*

1. Civil Service : Meaning, Functions, Modern Trends : Numerical strength, Technicians and Specialists, increasing powers, civil service neutrality.
2. Recruitment : Importance, problem, selection methods, Reservation of seats.
3. Promotion : Principles.
4. Position classification.
5. Education and training.
6. Employer-Employee relations : Right of association, Right to strike, Machinery for negotiation.
7. Integrity in administration : Definition, problem, corruption.

*Books*

1. Avasthi and Maheshwari : Public Administration (Agra, Laxmi Narain Agrawal, 1984).
2. Tyagi A.R. : The Civil Services in Developing Society (Delhi, Sterling Publishers (P) Ltd., 1969).
3. Pai-Panandikar V.A. : Personal Administration (New Delhi).

*Section II*

1. Evolution of Comparative Public Administration.
2. Various approaches to the study of Comparative Administration.
3. Patterns and Types of Administration in Developed Countries, Patterns and Types of Administration in Developing Countries, Rigg's Theory of Prismatic Society.

**T.Y.B.A. / 381**

*Recommended Books*

1. Arora Ramesh K. : Comparative Public Administration Ecological and Perspective (New Delhi, Associated Publishing House, 1979).
2. Heady, F. : Public Administration : A Comparative Perspective, Englewood Cliffs, Prentice Hall.

**(Special) Paper-3**

*Financial Administration*

*Section I*

1. Financial Administration : Meaning and Scope, Problems, Principles.

2. Budget : Meaning, instrument of financial administration, characteristics, objectives of a budget, principles of government budgeting, revenue budget and capital budget, general considerations in the preparation, procedures of government budgeting.

The budget with legislature.

Consideration and passing of the Finance Bill.

3. The execution of the budget : Execution of the budget on the expenditure side and the revenue side, Delegation of financial powers, Role of the financial advisers.

4. The system of Government accounts : General consideration, combination of accounts and audit functions.

*Books*

1. G. S. Lall : Public Finance and Financial Administration in India, New Delhi, HPT Kapoor, 1976.
2. S. S. Mookerjee : Indian Public Finance and Financial Administration, Delhi, Surjeet Publication, 1979.

## **T.Y.B.A. / 382**

### *Section II*

1. Audit : Nature, Meaning and Scope of Audit. Comptroller accounts, Finance accounts, Audit of Public Sector. Auditor General of India, Audit of appropriation undertakings.

2. Parliamentary Financial Committee : Public Accounts Committee, Estimates Committee, Committee of Public Undertakings.

3. Centre-State Financial relations : Characteristics on Fiscal federalism, Flow of funds from Union to the states, Division of resources between Union and the States, Role of finance commissions, classification of expenditure by States, Harmonization of functions between finance commission and planning commission, Loans by the Centre to the States.

### *Books*

1. G. S. Lall : Public Finance and Financial Administration in India (New Delhi, HPT Kapoor, 1976).
2. S. S. Mookerjee : Indian Public Finance and Financial Administration (Delhi, Surjeet Publications, 1975).

## **Special - Paper 4**

### **Managing Administration - (Policy Making)**

### *Section I*

1. Concept of Public Policy.

2. Approaches to the study of Public Policy, Institutionalism. Elite theory, group theory, Input, output models, systems theory, incrementalism, game theory and public choice theory.

**T.Y.B.A. / 383**

3. Stages of the policy process, problem formation, policy formation - policy implementation, policy evaluation.

4. Organs of policy-making.

*Recommended Books*

1. James E. Anderson - Public Policy Making (New York) (Praeger, 1975).
2. Christopher Politt et al. (ed.)-Public Policy in Theory and Practice (U.K.Hodder and Stoughton, 1979).

*Section II (Techniques)*

1. Management by objectives.
2. O. and M. : Work Measurement, Work simplification, job study, performance appraisal.
3. Electronic Data Processing : Computer Application.
4. Management Information Systems : World processing Reprography.
5. Performance budgeting.

*Recommended Books*

1. Ball R. : Management Techniques and Quantitative Methods.
2. Eyre C.E. : Office Administration (Heinemann, London, 1983).
3. Mathur B. C., Deish K. and Chandra Sekharan C. (eds.): Management Administration, Publication Division, Government of India, New Delhi, 1979.
4. Batty J. : Developments in Office Management (Heinemann, London, 1972).
5. Walley B. H. : Handbook of Office Management, (Business books, London, Reprinted 1985, 2nd edn., 1982).
6. Pai Panandikar V. A. : Development Administration in India (Macmillan, Delhi, 1979).

**T.Y.B.A. / 384**

**(45) Home Science**

**General Paper**

*Introduction to Food and Nutrition :*

- (1) Basics of Nutrition.
- (2) Importance of food in our diet.
- (3) Functions of food.
- (4) Food groups.
- (5) Balanced diet.
- (6) Balanced diet for man, women, children and adolescent. Importance of proteins, fats, carbohydrates, vitamins and minerals in our diet.

*Food Preservation : Principals of food storage.*

1. Short period preservation.
2. Long period preservation.
3. Salting.
4. Deep freeze.

*Meal Planning :*

1. Menu planning.
2. Nutritional requirement.
3. Body protectness.
4. Budget.
5. Low Calorie Diet.

*Introduction to Textile/Clothing :*

- (a) Introduction to textile and clothing :
  - (i) Clasification of fibres.
  - (ii) Manufacture, properties and care of the following fibres-vegetable fibres, animal fibres, thermoplastic fibres, non-thermoplastic fibres.



**T.Y.B.A. / 385**

*(b) Basic stitching :*

- (i) Sewing equipments and supplies.
- (ii) Body measurements.
- (iii) Seams and Seam finishes.
- (iv) Facings and their uses.
- (v) Darts, tucks, pleats and gathers.
- (vi) Plackets.
- (vii) Fasteners.
- (viii) Different types of collars.

*(c) Basic Embroidery :*

- ( i ) To learn the various stitches such as running stitch, back stitch, stem stitch, straight stitch, couching, long and short stitch, stain stitch, lazy dazy, chain stitch buttonhole stitch, herring bone stitch, french knot, fly stitch, feather stitch.

*(d) Basic clothing :*

- (i) Clothing plan - general needs and purpose for which the fabric is used.
- (ii) Selection of clothing for men, women and children.
- (iii) Household textiles.

*(e) Body and girls clothing :*

- (i) The material chosen according to the pattern, column.
- (ii) Construction of fabric.
- (iii) Suitability to the occasion.

*(f) Socio-psycho aspect of clothing :*

- (i) Clothing practices and effect of clothing on the individual.
- (ii) Effect of clothing on a behaviour of person.
- (iii) Clothing influenced by religion and culture.
- (iv) Fashion and Fads.

**T.Y.B.A. / 386**

*Reference Books for Foods and Nutrition*

1. Modern Cookery—Thangam E. Philip
2. Sumabi R. — Murdamlor, M. V. Rajgopal—Fundamentals of Food and Nutrition
3. Human Nutrition - Benjamin T. Bustar.
4. Food Fundamentals—McWilliam Margarate
5. Learning better Nutrition—Ritchie Jean
6. Nutrition in India—Patwardhan
7. Text Book of Home Sicience—Devadas Rajmmal
8. Food and Nutrition—Dr. Dudum Gupta
9. Essentials of Food and Nutrition—Swaminathan

*Books recommended for Clothing and Textiles*

1. Fundamentals of Textiles and Their Care — Susheela Dantye
2. Household Textiles and Laundry Work — Durga Deulkar.
3. Textiles Fibres and Their Use — Katharine Paddock Hess.
4. Basic Process and Clothing Construction — Sherie Doongaji, Roshni Deshpande.
5. Best of Needle Work and Craft — McCall.
6. Text Book of I.C.S.E. Home Science — Hingorani.
7. Advances in Textile Processing — Lynn, J. Edward.
8. Textiles Properties and Behaviour — Edward Millar.
9. Introduction to Fibres and Fabrics — E. Korneich.
10. Textiles Fibres and Fabrics — Bernard P. Corbman.
11. Embroidery — Harding Marry Co.
12. Needlework in Colour — McCall's.

**T.Y.B.A. / 387**

**Special Paper III**

**Biology and Microbiology**

- (a) Biochemistry of carbohydrates, proteins, fats, Vitamins, minerals, and Salts.  
Microbiology-Moulds yeast, bacteria, fermentation, food poisoning and food preservation.
- (b) Properties of basic nutrition : Properties and functional values of carbohydrates, Proteins, Fats, Vitamins, Minerals and salts.
- (c) Principles of preparation of valuefood, reasons for cooking food, preliminary treatment of foods, seasoning food preparation, technique, methods of cooking, combination of food.
- (d) Nutritional biochemistry of proteins, carbohydrates, fats minerals and vitamins.
- (e) Family meal arrangement, balanced diet, normal caloric requirement and caloric value of different foods.
- (f) Agewise nutrition - Diet for infant growing child, adolescence, pregnant and lactating mothers.
- (g) Diet theory for Labours and certain common diseases.
- (h) Fancy cookery - Indian sentimental, Chineses, Biscuits and Cakes.
- (i) Community health - Economic, population, agricultural conditions in India. Community meals, planning in school, hospital.

**T.Y.B.A. / 388**

**Special Paper IV**

**Textile and Clothing**

*1 st Term :*

- (a) *Elementary Chemistry :*
  - (i) Classification of fibres.
  - (ii) Chemistry of vegetable, animal and synthetic fibres.
  - (iii) Chemistry of soaps and detergents.
  - (iv) Water.
- (b) *Principles of wardrobe building :*
  - (i) Selection of clothing fabric according to different age group.
  - (ii) Selection of fabrics according to needs.
  - (iii) Different factors affecting the selection i.e. price, serviceability and suitability.
- (c) *Clothing construction :*
  - (i) Basic bodies block of a child.
  - (ii) Basic bodies block of an adult.
  - (iii) Construction of children's garment i.e. Jangia, Jabhala, Romper, A-line, frock, boy's shirt and knicker.
- (d) *Traditional embroidery :*
  - (i) Our heritage.
  - (ii) Traditional embroidery of different States of India, their origin, different stitches used and materials on which it is embroidered.
- (e) *Fancy embroidery :*
  - (i) Monogramming open work.
  - (ii) Cut work.
  - (iii) Smoking technique.
  - (iv) Applique embroidery.
  - (v) Sewing machine embroidery.
  - (iv) Beading.

**T.Y.B.A. / 389**

*Ind Term :*

- (a) *Clothing Construction :*
  - (i) Construction of clothing for following garments :  
Sari blouse, petticoat, kameez, salwar, housecoat.
  - (ii) Figure problems.
  - (iii) Renovation of old clothes.
- (b) *Textile design :*
  - (i) Printing of textiles with various methods such as  
Roller printing, discharge printing, resist printing,  
screen printing, pigment printing.
  - (ii) TIE and dye; Batik, printing.
- (c) *Fashion Craft :*
  - (i) Adaptation of fabric blocks in different designs.
  - (ii) Relocation of basic dart.
  - (iii) Yokes, Collars and sleeves of different types.
  - (iv) Fullness in garments.
  - (v) How to make paper patterns.
- (d) *Laundry :*
  - (i) Detergents.
  - (ii) Laundry equipment.
  - (iii) Use of cleaning materials and other reagents.
  - (iv) Stain removal.
  - (v) Methods of laundering and their principles.
  - (vi) Washing of cellulose, wool and silk fibres.
  - (vii) Dry cleaning.
- (e) *Traditional textiles of India :*
  - (i) Fine and woven in patterns.
  - (ii) Dacca Muslims.
  - (iii) Baluchar Butledar.
  - (iv) Chanderi saris.

**T.Y.B.A. / 390**

- (f) *Embroidered :*
- (i) Shawls.
  - (ii) Phulkaries.
  - (iii) Kantha Chamba Roomals.
  - (iv) Chickenkari Work.
  - (v) Kamdani of Masulipatam.  
Patola, Bandini, Brocades- Kamkhwab, Himru.

*Books referred for Foods and Nutrition*

- (1) Food Microbiology—Frazier W.C. and D.C. Wasthoff-
- (2) Food Fundamentals—McWilliams Margaret -
- (3) Fundamentals of food and Nutrition—Mudambe, Sumati R. and Rajagopal
- (4) Food Science—Potter N.N.

*Books recommended for Clothing and Textiles*

- (1) Fundamentals of Textiles and Their care — Susheela Dantagi.
- (2) Household Textiles and Laundry Work — Durga Deulkar.
- (3) Textiles Fibres and Their Use by Katharine Paddock Hess.
- (4) Basic Process and Clothing construction — Sheire Doongaji, Roshni Deshpande.
- (5) Best of Needle Work and Craft — Mc Call.
- (6) Text Book of I.C.S.E. Home Science — Hingorani.
- (7) Advances in Textile Processing — Lynn, J. Edward.
- (8) Textile Properties and Behaviour — Edward Miller.
- (9) Introduction to Fibres and Fabrics — E. Kornreich.
- (10) Textiles Fibres and Fabrics — Bernord P. Corbman.
- (11) Embroidery — Harding Marry Co.
- (12) Needle Work in Colour — Mc Call's.

**T.Y.B.A. / 391**

## **(46) Adult Education**

### **General Paper III**

History of Adult Education in India Special Paper -III.  
Linkage of Adult.

Education with extension Programmes Special Paper -  
IV. Project work in Adult Education.

### **General Paper III**

#### **Historical Review of Adult Education in India**

1. *Objectives :*

1. To acquaint the students with various stages through which Adult Education has gone since last century and present century in India.
2. To acquaint the students with various efforts done for Adult Education during Pre-Independence period.
3. To provide the students a broader canvass of Adult Education together with the clarity of historical perspective of Adult Education in India.
4. To equip the students to visualize and accept new forms of Adult Education in consonance with the need of the time.

#### **Content**

##### *Pre-Independence Period (First Term)*

Education Commissions Reports - Literacy percentages in 19th and 20th century, say, upto 1951.

Hunter Committee, Mudaliar Committee, Radhakrishnan Committee etc.

Different efforts for educating adult illiterates-Night schools, Jamia Millia, M.Gandhi, R.Tagore, Osmania University.

**T.Y.B.A. / 392**

Provincial Autonomy (1937), Individual efforts by Godawari Gokhale, Appa Pendse etc.

Appointment of Adult Education Committees : Bombay, Gujarat, Calcutta.

*Post-Independence Period (Second Term)*

Literacy percentages from 1951 to 1981. Concept of Social Education replacing Adult Education by addition of some general education content to literacy.

Scheme of Community Development Centres (1952), Functional Literacy and Farmers Functional Literacy Programme.

Gram Shikshan Mohim of Maharashtra.

Television project of Adult Education conducted by Bombay City Social Education Committee.

Non-Formal Education with special reference to age group 15-25.

NAEF with all its details : 1978 to 1980-82.

Adult Education Programme under point No.16 of the new 20 point programme of the Govt. of India - 1983 onwards.

Mass Movement for Functional Literacy - 1986.

Challenge of Education - A policy perspective and new Education Policy of 1986 with reference to Adult Education Policy of 1986 with reference to Adult Education Programme of Action (in connection with New Edn. Policy).



## **T.Y.B.A. / 393**

### *References*

1. UNESCO Report - Mrs.B.Bhatnagar and Prem Chand.
2. The Report of the Education Commission - Kothari Commission, 1964-66.
3. Farmers Functional Literacy Programme — Ministry of Edn. and Social Welfare, New Delhi.
4. Gram Shikshan Mohim-An Evaluation — Maharashtra Government.
5. 50 years of Adult Education — D.A.E.,New Delhi.
6. Non-Formal Education — Ministry of Edn. & Social Welfare, New Delhi.
7. NAEP—An Outline Ministry.
8. Handbook for Functionaries — D.A.E.
9. India (Government of ....) Report on Gram Shikshan Mohim of Maharashtra Government of India, 1964.
10. Evaluation Reports — T. I. S. S., Gujarat, Sardar Vallabha Patel Institute, Patana, T.N.
11. Report of the Review Committees, 1982.
12. University System & Edn. as Third Dimension, U.G.C.
13. Challenge of Education, Govt. of India, 1986.
14. National Education Policy, 1986.

### **Special Paper III**

#### **Linkage of A.E. with Extension Programmes**

##### *Objectives :*

1. To understand the philosophy of building linkages.
2. To understand the techniques of building linkages.
3. To identify the types of linkages required for effective implementation of A.E.

First three topics for Term-End Examination.

## **T.Y.B.A. / 394**

### *Course Content :*

Extension as the third dimension to the philosophy of establishing linkages, need for linkage (Horizontal and Vertical linkages).

1. Horizontal Linkages : Academic departments, Developmental agencies, Govt. and Non-Govt. sector and other supportive sectors.
2. Vertical linkages - Namely Govt., U.G.C., Universities, Colleges, Villages/Communities.
3. Linkages with communication systems-(mass media, folk media and other supportive media)
4. Linkages for creating resources (man-power, material, capital and supportive programmes). Linkages with Funding Agencies, Govt. Non-Govt. and Foreign.
5. Linkages with curricular and its advantages.
6. Linkages with External evaluating agencies in the field of Adult Education.

### *References*

- (1) Kundu C. L.: Adult Education — Principles, Practice and Prospectus - Academic Paper Books, New Delhi, 1984.
- (2) Davies, T. Charles : Open Learning Systems for Mature Students Council for Educational Technology, London, 1977.
- (3) Directorate of Adult Education : Adult Education and National Development, Directorate of Adult Education, New Delhi, 1974.
- (4) Directorate of Adult Education : Adult Education Component in the Development Schemes of Government of India, 1978.

### **T.Y.B.A. / 395**

- (5) Directorate of Adult Education : Fifty years of Adult Education in India : Some experiences - Government of India, 1978.
- (6) Directorate of Adult Education : Monitoring and Evaluation and Research - Directorate of Adult Education, Ministry of Education and Social Welfare, New Delhi, 1978.
- (7) Directorate of Adult Education : Monitoring the NAEP, Directorate of Adult Education, Ministry of Education and Social Welfare, New Delhi, 1979.
- (8) Maddison, John : Education of Adults — A World Perspective on Radio and Television in Literacy (Reports and Papers on Mass Communications-62), UNESCO, Paris, 1974.

### **Special Paper IV**

#### **Project work in Adult Education**

##### *Objectives :*

1. To enable the students to plan and execute a minimum of field work in Adult Education.
2. Project report will be submitted in triplicate to the University at the end of February in the concerned Academic Year.
3. Evaluation of report will be out of 70 marks and 30 marks will be for Viva-voce based on Project Report.

##### *Course Content :*

During the course of the year the student should plan and complete any one of the following activities and prepare a report of the same. The report should ordinarily be around 30 typed pages in 10,000 words.

**T.Y.B.A. / 396**

- (i) Organization of an adult education centre : Survey, identify the learners, identify instructor, frame curriculum, identify teaching-learning material, form centre-committees and commence the work of the centre and work at the centre for at least 50 hours.
- (ii) Preparation and use of teaching-learning material: Identify the needs of the learners, prepare a primer for teaching literacy, prepare maps-charts and other audiovisual aids appropriate to the needs of the centre and use this material in the centre for not less than 50 hours.
- (iii) Preparation and use of evaluation materials and identify the curriculum that was followed at a Centre; prepare graded material to evaluate literacy and numeracy (based on the learning material used in the Centre), prepare tool to evaluate functionality and awareness introduced at the centre; use the evaluation tools and make a report of the progress of learners.
- (iv) Evaluation of a group of centres (at least five collect information as to how the Centres were established; curriculum framed, instructors trained and the centre supervised and monitored. Prepare a schedule for the evaluation of a centre as also for the evaluation work of an instructor. Make a consolidated report of evaluation of all the five or more centres.
- (v) Organization of a training programme of instructors (at least ten instructors ) : Identify ten instructors, identify their centres and needs of the centres, prepare a plan for the pre-service training of instructors (at least 20 hours), identify materials useful for training conduct pre-service training; Evaluate the outcome of training.

### **T.Y.B.A. / 397**

- (vi) Programme for one of the target groups of adult education (women, SC and ST) : Select one of the groups; identify 10 learners; organize a centre for them, identify their needs of literacy and areas of functionality and awareness; identify and instructor, form a centre committee and commence the work of the centre and attend it for at least 50 hours.
- (vii) Preparation of material for the training of instructors : Preparing curriculum of the training of instructors taking into consideration the local need; preparing the time-table of training; preparing maps, charts and audio-visual material (at least four gadgets) and use of these materials in training; assessing the effectivity of this material.
- (viii) Train at least 5 illiterates and make report of their achievements.

### *References*

- (1) Training : Adult Education Functionaries, Govt. of India, 1978.
- (2) Training Manual for Adult Education Functionaries, U.G.C., 1985.
- (3) Training of Instructors in Adult Education, State Institute for Adult Education, M.S., 1982.
- (४) गोगटे, श्री. ब. : राष्ट्रीय प्रौढ शिक्षण कार्यक्रमातील देखरेख आणि मूल्यमापन, राज्य प्रौढ शिक्षण साधन केंद्र, तिसरी आवृत्ती : १९८४.
- (5) Directorate of Adult Education : Monitoring and Evaluation and Research - Directorate of Adult Education, Ministry of Education and Social Welfare, New Delhi, 1978.

**T.Y.B.A. / 398**

**(47) N.S.S.**

**(National service Scheme)**

*Note* :—I to V topics for First Term. V to VII topics for Second Term. Project work will be conducted through out the year.

**Rural Community and Development**

*I. Rural Community :*

- (a) Introduction to Rural Life - Physical structure of village community, rural stratification, rural economy, rural leadership, rural religions.
- (b) Problems of rural areas-low agricultural productivity, tenancy problems, bonded labour, rural migration to town and cities, poverty, lack of subsidiary occupation, illiteracy, superstitions, health etc.

**II. Method and techniques of working with people.**

**III. (a) Individual (b) Group (c) Communities.**

**IV. (a) Functional Structure of Panchayat Raj (Three tier system)**

(i) Gram Panchayat.

(ii) Panchayat Samiti.

(iii) Zilla Parishad.

**(b) Introduction to the major scheme of development Government and semi-government agencies.**

(i) D,P,A,P.,IRDP, Benor, Minor Irrigation, Social Forestry, E.G.S. etc.

(ii) Town Planning slum improvement.

(iii) Youth Welfare.

**Planning and Development**

- V. *Programme Planning :*  
Importance, Principles and Methods of Programme Planning in N.S.S.
- VI. *Introduction to the Major Scheme of Development of Government and Semi-Government Agencies.*
- (a) D.P.A.P., I.R.D.P., Benor, Minor Irrigation, Social Forestry, E.G.S. etc.
  - (b) Town Planning, Slum improvement.
  - (c) Youth Welfare.
- VII. *Action Plan of a Project :*

Every N.S.S. student volunteer will select one out of the following and do the pilot work and submit the final plan of action of the project to be undertaken for approval and assessment:

- (a) Project concerning the survey type of activity.  
OR
- (b) Project concerning programme type of activity.  
OR
- (c) Project concerning institutional study.  
OR
- (d) Project concerning dissemination of information in adopted areas and getting feed back from the community.

*Note :* Project work itself is a field work. Project work will be conducted throughout the year. Allotment of the project be given from the beginning of the I term. A student should write a detailed report of the project work and submit to the Head of the Concerned Department. The Head will certify the Project Work at the end of the year and will submit the marks to the University out of 20.

**T.Y.B.A. / 400**

*Books for Reading*

1. Dr. S. K. Hulbe & Prof. P. R. Gaikwad : Introduction to Rural Life, Pub. B.P.H.E. Society's C.S.R.D., Ahmednagar College, Ahmednagar.
2. Dr. S. K. Hulbe, Prof. P. R. Gaikwad : N. S. S. and Rural Reconstruction. Some Guidelines for Village Adoption Programme. Pub. BPHE Society's C.S.R.D., Ahmednagar College, Ahmednagar.
3. D. Paul Choudhary : 'Introduction to Social Work', Pub. Atma Ram and Sons, Delhi-6.
4. K. D. Gangrade : 'Community Organization in India', Pub. Popular Prakashan, Bombay.
5. S. K. Dey : 'Panchayati Raj-A Synthesis'. Pub. Asia Publishing House, New Delhi.
6. Rejeshwar Dayal- 'Panchayati Raj in India', Pub. Metropolitan Book Co. Pvt. Ltd., Delhi.
7. S. C. Jain : 'Community Development and Panchayati Raj in India'. Pub. Allied Publishers, Bombay, New Delhi.
8. नाडगुंज : ग्रामीण समाजशास्त्र, महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

*Books for Reference*

1. K. Singh : 'Social Work Theory and Practice', Pub. Prakashan Kendra, Lucknow 226 007.
2. Walter A. Friedlander : 'Introduction to Social Welfares', Pub. Prentice Hall of India (Pvt.) Ltd., New Delhi, 1967.
3. O. P. Dahama, O .P. Bhatnagar : 'Education and Communications for Development', Pub. Oxford IBH Publishing Co., New Delhi-Bombay.



**T.Y.B.A. / 401**

4. L.S. Mehra 'Youth in Modern Society', Pub. Chugh Publications, Allahabad.
5. UNESCO 'Youth in the 1980's, Pub. The UNESCO Press.
6. Gauri Rani Banerjee-Tata Institute of Social Sciences, Series No. 23.
7. S. H. Pathak Medical Social Work in India, Pub. Principal, Delhi School of Social Work, 3, University Road, Delhi-6 (1961).
8. K. K. Jacob, Methods and fields of Social Work in India (1964).
9. प्र. द. पंडित, इंदुमती चिपळूणकर : व्यक्ति सहयोग कार्ये (प्रका. सौ. चिपळूणकर, सदाशिव पेठ) (Social Case Work).
10. पु. ल. भांडारकर, : सामाजिक संशोधन पद्धती, प्रका. म. वि. ग्रं. मंडळ (१९७६), नागपूर.
11. Nanavati Anjaria : 'Our Rural Problems'.
12. A. R. Desai : 'Rural Sociology in India', Pub. Popular Prakashan, Bombay.
13. देशपांडे, भागवतवार, गोगटे : सामाजिक मानसशास्त्र, काँटिनेंटल प्रकाशन, पुणे.
14. एम. एस. सोमण : सामाजिक संशोधन पद्धती.

**(४८) तृतीय वर्ष बी.ए. (शारीरिक शिक्षण) अभ्यासक्रम  
(from June 1994)**

**सामान्यस्तर - अभ्यासक्रम**

**उद्दिष्टे**

१. युवकांमध्ये शारीरिक शिक्षण व खेळ अभिरुची वाढविणे.
२. शारीरिक शिक्षण व क्रीडा यांच्या तात्त्विक पार्श्वभूमीचा सामान्य परिचय करून देणे.
३. व्यायाम - आरोग्य - मनोरंजन यांची मूलभूत तत्त्वे समजावून घेणे.
४. क्रीडा कार्यक्रमांतून विविध शारीरिक क्षमतांचा व क्रीडाकौशल्यांचा विकास करणे.
५. विविध जागतिक क्रीडास्पर्धांचा परिचय करून घेणे.

बी.ए. - तीन वर्षे, इंटिग्रेटेड पदवी अभ्यासक्रमातील वैकल्पिक विषयांच्या “जे” ग्रूपमध्ये - शारीरिक शिक्षण या विषयाचा अंतर्भाव करावा.  
बी.ए. - (शारीरिक शिक्षण) - प्रथम, द्वितीय व तृतीय वर्षांना (प्रत्येक वर्षी) १०० गुणांचा अभ्यासक्रम असेल.

या अभ्यासक्रमात प्रतिवर्षी - ६० गुण - लेखी परीक्षा.

या अभ्यासक्रमात प्रतिवर्षी - ४० गुण - प्रात्यक्षिक परीक्षा घेतली जाईल.

**लेखी परीक्षा**

(अ) प्रथम सत्रानंतर ६० गुणांचा प्रत्यक्ष परीक्षा होऊन त्यांचे २० पैकी गुण करून वार्षिक परीक्षेच्या गुणांत मिळविले जातील.

(ब) वार्षिक लेखी परीक्षा ४० गुणांची असेल.

**प्रात्यक्षिक परीक्षा**

क्रीडांगणांवरील क्रीडाकौशल्यांची ४० गुणांची परीक्षा द्वितीय परीक्षा सत्राच्या अखेरीस होईल.

वार्षिक प्रात्यक्षिक परीक्षा - तात्त्विक परीक्षेपूर्वी होईल.

प्रत्येक वर्षाच्या शारीरिक शिक्षण विषयात उत्तीर्ण होण्यासाठी लेखी व प्रात्यक्षिक परीक्षेत स्वतंत्रपणे किमान ४०% गुण आवश्यक आहेत.

**T.Y.B.A. / 403**

**तृतीय वर्ष बी.ए. (शारीरिक शिक्षण)**

पेपर ३	गुण ६०
भारतीय शारीरिक शिक्षण - आधुनिक प्रवाह (एस - ३)	
घटक १	: ब्रिटिश काळातील शारीरिक शिक्षण. सैनिकी संरक्षणात्मक, मनोरंजनात्मक इ. तालिमी - आखाडे मंडळे - कार्य.
घटक २	: स्वातंत्र्योत्तर काळात शारीरिक शिक्षण, नियंत्रित, नियोजित शालेय शारीरिक शिक्षण.
घटक ३	: शारीरिक शिक्षणाचे राष्ट्रीय धोरण. (१९८०, १९८६, १९९२ इत्यादी प्रस्तांवानुसार)
घटक ४	: क्रीडा प्राधिकरण - राष्ट्रीय स्तरावरील.
घटक ५	: जागतिक क्रीडास्पर्धा परिचय. ऑलिम्पिक्स - उन्हाळी । हिवाळी स्पर्धा-टेनिस, फुटबॉल, हॉकी, बॅडमिंटन, क्रिकेट.

प्रात्यक्षिक कार्य	गुण ४०
(अ) विकासात्मक व्यायाम सर्वांगसुंदर इ.	
(ब) (१) अॅथलेटिक्स	
धावणे, फेकीच्या बाबी, उड्याचे प्रकार कोणतेही २, प्रत्येकी	१० गुण.
(२) पुढील समूहांपैकी प्रत्येकी १।१ खेळ गुण २०	
एकूण २ खेळ	
गट १ - कबड्डी, खोखो, व्हॉलीबॉल,	
गट २ - फुटबॉल, हॉकी,	
गट ३ - हॅण्डबॉल, क्रिकेट,	
गट ४ - टेबलटेनिस, बॅटमिंटन,	
गट ५ - कुस्ती, ज्यूडो.	

**T.Y.B.A. / 404**

**प्रात्यक्षिक काम**

(ड) खेळ, आक्रमक कौशल्ये

१. कबड्डी : (क) हाताने स्पर्श करून गडी मारणे.

(ख) पायाने गडी मारणे.

(ग) टपिंग बुद्ध टो, लेग थर्स्ट.

(घ) साइड किक.

(च) फ्रंट किक, मूळ किक, फ्लॉम किक.

बचावात्मक कौशल्ये : अम्फल टच, अन्थल होल्ड, नी कॅच, थाय कॅच, रिस्ट कॅच, सिंगल ब्लॉक, सिंगल चेन.

२. खोखो : तीन पावलात खो देणे, दोन पावलात खोखो देणे, आडव्या पाठीवर धावणे, खुंटास वळसा घालणे, साखळी, खुंट साखळी, गोल खेळ, हुलकावणी.

३. व्हॉलीबॉल : पवित्रा, पायाचे काम, अंडरहॅण्ड पास, अप्परहॅण्ड पास, सर्व्हिस, अण्डरहॅण्ड, साइड आर्म, स्ट्रेट स्मॅशिंग.

४. बास्केटबॉल : पवित्रा, चेंडू हाताळणे, कॅचिंग, ड्रिलिंग, शूटिंग, फुटवर्क.

५. बॅडमिंटन रॅकेट पकडणे, फोरहॅण्डग्रीप, सेकंडहॅण्ड ग्रीप, मीडग्रीप, फोरहॅण्ड स्ट्रोक, बॅकहॅण्ड स्ट्रोक, ओव्हरहेड स्ट्रोक, स्मॅश, सर्व्हिस, हाय - लो.

६. टेबल टेनिस : पवित्रा, ग्रीप, सर्व्हिस, रिटर्न.

७. फुटबॉल : पवित्रा, ड्रिबलिंग, ट्रपिंग, किकिंग, पासिंग.

८. हॉकी : व्हिल धरणे, ड्रिबलिंग, रोलिंग, हिटिंग, पुशिंग, स्कूप.

९. हॅण्डबॉल : पासिंग अँड कॅचिंग, ड्रिबलिंग, शूटिंग.

**पेपर : शारीरिक शिक्षणातील आधुनिक प्रवाह आणि मूल्यमापन**

**संदर्भ पुस्तके**

(१) महाराष्ट्र क्रीडा दर्शन - मा. दि. गो. वाखारकर, अतुल बुक एजन्सी, प्रभात रोड, पुणे- ४.

(२) महाराष्ट्रातील शारीरिक शिक्षणाची वाटचाल - मा. दि. गो. वाखारकर, मराठवाडा सांस्कृतिक मंडळ, औरंगाबाद.

**T.Y.B.A. / 405**

- (३) शारीरिक शिक्षणाचे ऐतिहासिक स्वरूप – श्री. दि. गो. वाखारकर आणि प. म. आलेगावकर, पार्वती प्रकाशन, पुणे ३७.
- (4) Physical Education in India — D. G. Wakharkar, M.V.P. Mandal, Amravati.
- (५) शारीरिक शिक्षणाच्या परीक्षेचे स्वरूप – श्री. दि. गो. वाखारकर, मराठवाडा सांस्कृतिक मंडळ, औरंगाबाद.
- (६) शारीरिक शिक्षा में परीक्षा एवं मापन – प्रा. श्री. असनारे, अमरावती.
- (7) Physical Education : Draft Curriculum, N.E.R.T. Publication, New Delhi, 1980.
- (8) Yoga Committee Report — Govt. of Maharashtra, 1971.
- (९) भारतीय खेळ, प्राधिकरणाचे विशेष खेळ आणि योजनाएँ – एन. साई दिल्ली, १९९२.
- (10) National Sports Policy, 1986—Ministry of Human Resources.
- (11) Physical Education in India — D. G. Wakharkar, M.V.P. Mandal, Amravati.

**बी.ए. (शारीरिक शिक्षण) (तृतीय वर्ष) (एस-४)**

प्रात्यक्षिक काम : (प्रथम वर्ष व द्वितीय वर्ष यांतील आवश्यक कामांचा प्रथम करार आवश्यक)

- (अ) अॅथलेटिक्स : (१) हर्डल्स.  
(२) भालाफेक.  
(३) तिहेरी उडी.
- (ब) योगा : सुप्तवज्रासन, अर्धमत्स्येंद्रासन, मत्स्यासन, सर्वांगासन, शीर्षासन, पश्चिमोत्तानासन, मयूरासन, चक्रासन, उड्डियानबंध, प्राणायाम.
- (क) जिम्नॅस्टिक : पॅरललबार, हॉरिझॉन्टल बार, रोमन रिंग, पोमेलहॉर्स, व्हालिंटिंग हॉर्स, टेबलटेनिस (मुलींसाठी).

**T.Y.B.A. / 406**

**खेल :**

कबड्डी : सर्व कौशल्ये, खेळातील डावपेच आक्रमक । बचावात्मक, डायव्हिंग, पुशिंग, औटसाइट, दम टिकविणे, कव्हर.

खोखो : अॅडव्हान्स कौशल्ये - जजमेंट खो, सूर मारणे, खुंटावरून टर्न, टॉपिंग, अॅडिशनल चेन, रिंगगेम, डावपेच.

व्हॉलीबॉल : अॅडव्हान्स पास - बॅक जंप अॅण्ड पास, डाइव्ह अॅण्ड पास, सर्व्हिस - राउंड हॅण्ड, फ्लोटिंग, स्पिन.

बास्केटबॉल : सर्व कौशल्ये, डावपेच, झोन डिफेन्स, मॅन टू मॅन आक्रमण, गिव्ह अॅण्ड गो, फास्ट ब्रेक, सेट प्लेज.

बॅडमिंटन : शॉट्स, सिंगल सर्व्हिस, डबल सर्व्हिस, रिसिडिंग, डावपेच.

टेबल टेनिस : अॅटॅचिंग शॉट्स - फोरहॅण्ड, बॅकहॅण्ड ड्रॉइव्ह, डावपेच,

हॉकी : शूटिंग इन् गोल, कॉर्नर, पेनल्टी कॉर्नर, स्ट्रोक डावपेच.

हॅण्डबॉल : शूटिंग, पासिंग, ड्रिबलिंग.

कुस्ती : मॅट होल्ड, above, below, front.

आक्रमण, बचाव.