

UNIVERSITY OF DELHI

SCHEME OF EXAMINATION

AND

COURSES OF READING

FOR

SUBSIDIARY SUBJECTS FOR B.A./B.Com. (HONS.)

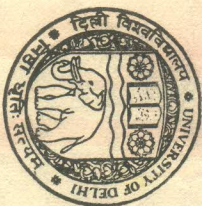
AUTHENTICATED COPY

Assistant Registrar (Genl.)

University of Delhi

14/9/78

- I Year Examination 1980
- II Year Examination 1981



COMPLEMENTARY COPY

Syllabi applicable for students seeking admission to the B.A./B.Com. (Hons.) Courses in the Academic Year 1979-80.

Price :

Rs 2 00 P

and be other than the one offered as a case may be.)

, Telugu, Kannada, Urdu, Bengali, Secondary School Education, New Delhi, in India and recognised by the Government of India. It shall be permitted to offer as a subsidiary

DIARY SUBJECTS WILL BE
ON OF SUCCESSFUL

ENGLISH

- (a) English (Subsidiary) for Honours Courses in Mathematics, Mathematical Statistics, Philosophy, Psychology, Economics, History, Pol. Science Sociology, Geography, Hindustani Music, Karnatak Music :
- (i) Students who have not read English beyond Class X will study the I Year English A Course.
 - (ii) Students who have not read English even upto Class X will study the I Year English A Course, but they may, if so advised, offer the Remedial English Course, in addition.
 - (iii) Students who have read core English in classes XI and XII will study the I Year English B Course.
 - (iv) Students who have read Elective English In Classes XI & XII, will study the I Year Elective English Course.
- (b) English (Subsidiary) for Honours Courses in Hindi, Urdu, Bangali, Panjabi Sanskrit, Arabic & Persian :
- (i) All students of the above Courses will study the I Year English A Course and I Year English B Course (2 papers)
 - (ii) Those who have not read English even upto Class X will study both the above mentioned papers of English; but they may also, if so advised, take the Remedial English Course, in addition.
- (c) English (Subsidiary) for B.Com. (Hons.)
- (i) at the end of I Year—I Year English B Course.
 - (ii) at the end of II—I Year Elective English Course.
- Note* :—Composition Exercise, where set will include topics of interest to students reading for degrees in commerce
(Details of Courses given below)

1st year year English 'A' Course

- (i) Objectives :— This is essentially a language-based course. It aims at making students read English prose with a view a

to enlarging their comprehension of the language and introducing them to interesting shorter fiction, so that they may be encouraged to develop reading habits. It also aims at giving them basic skills in grammar, widening their vocabulary, and teaching them to write simple and correct English on subjects of everyday experience.

(ii) Scheme of Examination :—

Paper I : Grammar 40 marks

Students will be expected to use the following grammatical features correctly in context :

Verbs : The following forms : simple present, simple past, simple future, present continuous, past continuous, future continuous, present perfect, present perfect continuous, past perfect, future perfect.

Adverbs : Their formation ; the position of certain types.

Prepositions : The more common uses of simple prepositions, selected verb-preposition (or verb-adverbial particles) combinations.

Articles.

Conjunctions.

Subject-Verb-agreement.

Direct and reported speech in sentences.

Transformation of Sentences : including Active and passive voice.

Recommended Books :

1. Bhaskaran and Horsburgh, *Strengthen Your English* (O.U.P. 1973)
2. S. Pit Corder, *Intermediate English Practice Book*.
3. Standard Allen, *Living English Structure* (Longman, 1947).
4. F.T. Wood, *A Remedial English Grammar for Foreign Students* (Macmillan, 1965)

5. C.D. sidhu, *An Intensive Course in English : A Remedial Workbook* (Orient Longman, 1978)

(ii) *Comprehension* 30 marks

Students will be expected to answer questions on the language and content of the prescribed book. Questions will be related to the text, and will aim at testing student's comprehension of standard English. Questions will be framed in such a way as to discourage cramming.

Prescribed Book :

Aban T. Bhatia and P.S. Mathur, eds., *Twenty Short Stories*

(iii) *Vocabulary* 15 marks

Students will be expected to expand their vocabulary through prescribed and general reading.

Recommended Books :

1. C.A. Pittman, *Activating Vocabulary*.
2. Longman's Simplified English Series of late nineteenth-Century and twentieth-century writers.
3. Michael West Series.

(iv) *Composition* 15 marks

Students will be expected to produce guided compositions, totalling about 200 words, on a variety of subjects within their experience.

1st year English 'B' Course

(i) Objectives :— This course gives equal emphasis to language and literature. The language component aims at giving the students "applied skills": No lessons in formal grammar are proposed, but the student will be taught how to present his ideas in a cogent and organised written form and to analyse other people's writings from the point of view of content. The literary component will introduce him to a novel and a play by modern authors.

(ii) Scheme of Examination :—

- | | |
|----------------------|----------|
| (i) Essay | 25 marks |
| (ii) Precis | 25 marks |
| (iii) Literary Texts | 50 marks |

Texts Prescribed :

- (a) Kamala Markandeya, *Nectar in a Sieve*.
 (b) Arthur Miller, *All My Sons*.

1st year Elective English

(i) Objectives :— An exclusively literary course, it is meant for students who wish to read for a Pass degree, and have an interest in, and aptitude for English literature.

(ii) Scheme of Examination :—

The following seven novels are prescribed.

Students will be expected to answer questions on any four of these. Each novel will carry 25 marks.

1. Charles Dickens, *Great Expectations*
2. Thomas Hardy, *Tess of the D'Urbervilles*
3. Joseph Conrad, *The Secret Agent*
4. Graham Greene, *The Quiet American*
5. Stephen Crane, *The Red Badge of Courage*
6. Raja Rao, *Kanthapura*
7. J.C. Farrell, *The Siege of Krishnapur*

REMEDIAL ENGLISH

(i) Objectives :— This is remedial language-based course.

(ii) Eligibility :— Only for students who studied English neither at the class X nor at the XII level.

Students, including foreign students, in any other undergraduate English course will take this as an additional course if advised to do so by the English Department of the College concerned. In their case, there will be no final University examination.

(iii) For students who take this as an additional course, it will be of one year's duration.

(iv) Scheme of Examination :—

1. *Paragraph Writing* 20 marks

This exercise will be based on simple, everyday topics and situations. At least four topics will be set, and students will be expected to write a paragraph of approximately 100 words on any one of them.

2. *Letter/Application Writing* 20 marks

At least two simple exercises will be set, out of which students will be expected to attempt one.

3. *Translation* :— 20 marks

(a) This exercise will require rendering into English ten simple sentences in Hindi. At least 15 sentences will be set. 10 marks

(b) This exercise will require rendering into Hindi ten simple sentences in English. At least 15 sentences will be set. 10 marks

OR

For students who have not learnt Hindi, and for any others who might prefer an alternative, a question will be set as an alternative to the translation question. This question will require the expansion of a given outline into a story of about 200 words.

4. *Comprehension* 10 marks

A simple unseen passage of about 200 words will be set. Students will be expected to answer five questions based on the passage to test their comprehension.

5. *Vocabulary* 10 marks

This exercise will require students to use in simple sentences of their own ten out of fifteen given words.

6. Grammar

20 marks

This exercise will require students correct ten out of fifteen given sentences. The purpose will be to test students' knowledge of articles, number, tense, subject-verb agreement, and prepositions.

SANSKRIT

Paper I : Poetry, Prose & History of Literature

100 Marks

- (a) (Reghuvamsa of Kalidasa Canto XIII) 25
 (b) Kiretarjuniya Bharavi Canto I 20
 (c) Kadambari of Bana Bharta 20
 Shukanasopades only
 (d) Dasakumara carita of Dandin—Purvapithika Uchavasa I only 20
 (e) History of Sanskrit Literature: Mahakavya & Prose Romances only 15

Paper II : Drama, Prosody, Rhetorics & History of Sanskrit literature. 100 Marks

1. Drama (Translation, Explanation & Character—Analysis only).
 (a) Svapna-Vasavadatta of Bhasa
 (b) Abhijnanashakuntala of Kakudasa
 2. Metres : Anustaubha, Arya, Vamsastha, Sikharini, Sardulavikridita, Mainini, Mandakranta, Vasantatilaka, Drutav lambita.
 3. Rhetorics : Following figures of speech from the Sahitya Durpana of Visvanatha (Definitions and Examples only).

Paper III : Selections from Vedic Literature, grammar, translation and History of literature

100 Marks

4. History of Sanskrit Literature (Drama only)
 Anuprāsa, Yamaka, Upamā, Rūpaka, Sandeha, Ullēkha Apahnuṭi, Uṭpreksha, Atisayokti, Rūly-ayogita, Drstanta, Nidarsana, Slesa, Arthāntaram-yasa, Vibhāvanā Visesokti, Kavyainga.
 1. Kenopanisad
 2. (a) Vedic Mantras
 (i) Gaytri Mantra R.V II 62-10
 (ii) Visvanideva R.V V 82-5
 (iii) Tacaksur Y.V 36-24
 (iv) Caraivei Art. B.R 33-3
 (b) Prose passages.
 (i) Matsyavataretihasa, Satapatha Brahmana 1.8.1. 1-5
 (ii) Siksavalli, Taitriyopanisad, anuvaka 9 15 Marks
 3. Translation from Hindi or English into Sanskrit
 4. Composition Essay 10
 5. Grammar
 (a) Lagnu Siddhanta Kaumudi of Varadaraja, Sandhi Prakarana only. 20
 (b) Aptes guide to Sanskrit Composition Karaka only 10
 6. History of Sanskrit literature 20
 Ramayana, Mahabharata, Purana, Historical Kavyas, Fairy Tales & Didactic fables, Lyrics, Systems of Indian Philosophy & Sanskrit Studies in the West.

Book Recommended :

A.A. Macdonell	:	History of Sanskrit Literature
A.B. Keith	:	Classical Sanskrit Literature (Smaller edition).
Baldeva Upadhvaya	:	Sanskrit Sahitya Ka Itihase.
Chendrasekhar Pandeya	:	Sanskrit Sahitya Ki Rupe Reka

हिन्दी (संस्क्रितपरिचय)

(बी. ए. शानर्स और बी कांम. शानर्स के छात्रोंके लिए)

प्रथम प्रश्न पत्र :

क—भाषिक संरचना और श्रुति शोधन	३०	शंक
ख—साहित्य	४०	"
ग—निबन्ध-लेखन	२०	"
क—माषिक संरचना और श्रुति शोधन (मानक भाषा के रूप में हिन्दी के प्रयोग की दक्षता) परिभाषिक शब्दावली (लाभा दाई सौ शब्द)		
सहायक पुस्तक : (विभाग द्वारा तैयार की जाएगी)		
ख—साहित्य		
प्रज्ञो दीदी—उपेन्द्रनाथ 'श्रुतक'		
परख—जैनेन्द्र कुमार		
(उपन्यास से केवल प्रालोचनात्मक प्रश्न पूछे जाएंगे)		
दिल्ली (रामधारी सिंह 'दिनकर')		
ग—निबन्ध लेखन		

PANJABI

Paper I : (a) Functional Panjabi

(i) Shabad-Jor	10 Marks
(ii) Shabad-Rachna	10 "
(iii) Vak-Rachna	10 "
(iv) Ageter-Picheter	10 "
(v) Smanartham Shabad	10 "
(vi) Vipretarthak Shabad	"
(vii) Baharthak Shabad	"

(b) Essay	20 Marks
(c) Prose Selection	15 "

Gad Prakash (ed. Karnail Singh Thind)

(d) Novel : Amrita Pritam : Pinjar	15 Marks
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BENGALI

Paper I :

(a) Novel	30 Marks
(b) Prose	30 "
(c) Poems	20 "
(d) Essay Writing	20 "

Bibuti Bhusan Banerji ; Pather Panchali
Bankim Chandra Chattopadhyay : Kamla Kanter
Daptar.

The following pieces only :

- (i) Eka
- (ii) Biral
- (iii) Amar Durgotsab
- (iv) Patanga
- (v) A mar Man.

Rabindranath Tagore : Patataka (First five poems)

TAMIL

Paper I :

(i) Functional Tamil	30 Marks
(ii) Essay (writing)	20 "
(iii) Prose Selections	30 "
(iv) Novel	20 "

1. *Functional Tamil*

- (a) Improvement of style and language skill.
 (b) Letter Writing—Different types of Business letters.

2. *Essay : Books for reference.*

- (a) Kaditham Ezhuthuvathu Eppadi. The Little Flower Company, Madras-17.
 (b) Nandum Edum-P. Valan Arasu, Kathiravan Pathippaham, 12-A, Krishnan Koil North St., Palayamkottai-627002.
 (c) Pizhayinri Ezhuthungal by M.V Aravindhan, Manivanchar Noolagam. Chidambaram-608101.

3. *Prose :*

Kavimaniyan Vaazhvum Kavithai valamum by T. P. Perumal. Vaanathi pathippaham, Madras—17.

4. *Novel :*

Talaikcezh Vikithangel by Maanerarcary Jeya Kumar Stories, Nagar Koil—629001

GUJARATI

Paper I :

- (i) Functional Gujarati
 (ii) Essay (Writing)
 (iii) *Prose Selection*
 Mana Pasand Nibandho by V.K. Vaidya (First five) Pub. Sahitya Academy, Ravindra Bhavan, New Delhi.
 (iv) *Novel*
 Saraswati Chandra Part. I by G.M. Tripathi
 Pub : N.M. Tripathi & Co. Princess Street, Bombay.

MARATHI

Paper I :

- (i) Functional Marathi
 (ii) Essay (Writing)
 (iii) *Prose Selection*
 Book Prescribed : 'Manogate' by V.D. Ghate
 Mouj Prakashan, Bombay

(iv) *Novel :*

Books Prescribed : 'Savitri' by P.S Rege
 Mouj Prakashan, Bombay.

SINDHI

Paper I :

- (i) Functional Sindhi Grammar based on prescribed Texts :— 25 Marks
 (ii) Texts :— 75 Marks

(a) *Prose (Non-fictional)*

Sadarangani H.I.Kakha ain Kana

(b) *Short Stories :*

Loknath—Visaryan na Visran

(c) *Novel :*

Utmanchandani Sundiri-Preet Purani, Reet Nirali.

KANNADA

Paper I :

- (i) Functional Kannada Based on Prescribed Texts.

(ii) *Prose :*

Adhunika Gadya Sahitya (E.d) K. Gopalakrish-naraya. Kannada Sahitya Parishat, Bangalore-560018.

(iii) *Short Story :*

Sanna Kathe Galu—Part 8 by Masti Venkatesha Iyengar Jeevana Karyalaya, Bangalore-560004.

(iv) *Novel :*

Belli Modra by Triveni, D.V.K. Murthy, Mysore.

MALAYALAM

- Paper I : (i) Functional Malayalam with Special reference to the Prescribed Texts. 25 Marks
- (ii) Texts : 75

- (a) Prose : Pariprekshyam—N.V. Krishna Warriar
- (b) Short Stories : Akasatinte Marupuram—Punathil Kunhbdulla
- (c) Novel : Kalam—M.T. Vasudevan Nair.

ASSAMESE

The Scheme of Examination and detailed courses of Readings will be made available before the commencement of the academic year 1980-81.

ORIYA

The Scheme of Examination and detailed courses of Readings will be made available before the commencement of the academic year 1980-81.

TELUUGU

- Paper I : (i) Functional Telugu (Grammar) Based on Texts Prescribed
- (ii) Essay (General)
- (iii) Prose—Vyasvalli by Devata Subba Rao A.P. Book Distributors, Secunderabad.
- (iv) Novel : Keeia Sommalu—G.V. Krishna Rao Triveni Publishers—Machilipatnam, A.P.

URDU

- Paper I : Prose, Poetry, Essay, Translation OR 100 Marks
- Letter Writing OR Precise, Idioms & Proverbs : 55 marks
- (a) Text : Explanation/Paraphrase 20 marks
- (b) Essay 15 marks
- (c) Translation from English into Urdu OR Letter Writing or Precise 10 marks
- (d) Idioms & Proverbs

Detailed Courses of Reading :

1- اردو نظم برائے بی اے - سید محمد عیسیٰ علی شاہ

Excluding the following poets :

عزیز گلشنوی، بی بی یگانہ، اختر گوندوی، جمیل ظہری، اختر الایمان

۲- ادب کے ہجرتی - افسانہ - ترقی اور درویشی دہلی

Note : No books are prescribed for items (b), (c) and (d) above

ARABIC

- Paper I : Text, Grammar & Translation 100 Marks
- (a) Text : 50 marks
- Al-Jadid fil-Lughati-Arabiya, Part I,
by Syed Ihsanur Rahman.
- (b) Grammar: 30 marks
- The following topics :

علم الجہاد - حوزت العلماء - الجہاد الثلاثة - اسكف - الشدة - الجہود الصریح والضمیة - الجہود الصیغیة - حوزت العلماء

علم الصرف والحو : صورت الماضي والمضارع والامر واسم المفعول واسم المفعول واسم التعلیل والصفة المشبیه واسم الصفیة - اسم العظمت - اسم العلة - الوبی الفعل الثلاثی الجہود - اقسام الاسماء - المرفعة والمنكحة - اقسام المرفعة - العلم - الضمیر - اسلم الاشارة - اسلم الموصول - المرفوع باللام - المنكحة والمرفوع - علامات آیات - المرفوع المرفوع والسامعی - المرفوع والبنی الواحد - التثنیة - الهم السالم والمركب الموزن (الهم المكسور وبعض اذنته الكثیرة الاستعمال - المنصرف - المنصرف المركب ناقص - المركب الاضافی الاستاذ - المركب التوضیفی - اكر الاضافی المركب الجہادی - المركب ناقص - المركب العطفی - المركب العددی - الجملة الاسمیة والصفة - ان وانواتها بات واجزائها المنادی - الناطق - المنقول - المنقول فیہ - المنقول المطلق - المنقولہ -

- (c) Translation : 20 marks
 Translation of simple English sentences into Arabic. Recommended book : Darajatul Adab (Vol.I) by Zafar Iqbal.

Paper II : Text, Grammar & Translation 100 Marks

- (a) Text : 50 marks

Al-Qiratur-Rashida by Abdul-Fattah Sabri & Ali Umar, parts I & II. The following twenty lessons from Part I :
 3, 4, 5, 6, 7, 8, 9, 12, 13, 18, 22, 24, 29, 35, 36, 44, 45, 46, 49, & 58.

The following twenty lessons from Part II :

3, 4, 7, 10, 13, 15, 19, 23, 31, 32, 39, 40, 43, 44, 47, 55, 56, 57, 58 & 59.

- (b) Grammar : The following topics : 30 marks

علم الصوت والخط - الفعل الصحيح - الفعل المتكلم - الفعل المبهوم - المضارع - احوال الفعل الثلاثي
 الزيد اصل - قبيل - شاعلة - تفضل - تتعلم - انكاف - انفعال - استعفاك - املك - التمييز
 المستثنى - الاسم المنصرف وغير المنصرف - الاسماء الستة المنضمة - اسماء الافعال - افعال
 المدح والذم - افعال المقاربة - احوال المقاربة - احوال القسم - احوال النداء - حزن تا الوصل والقطع -
 التهيل الخوي -

- (c) Translation : 20 marks

Translation of easy English sentences into Arabic. Recommended book : Darajatul Adab (Vol. II) by Zafar Iqbal.

Paper III : (a) Text : 50 marks

Al-Qiratur Rashida by Abdul-Fattah Sabri & Ali Umar, Parts III & IV.

The following twenty lessons from part III :
 4, 6, 7, 14, 18, 23, 24, 25, 29, 42, 44, 45, 46, 50, 51, 52, 57, 58, 59, & 60.

The following twenty lessons from part IV :
 4, 5, 6, 7, 8, 12, 13, 14, 17, 18, 19, 20, 21, 28, 32, 35, 48, 54, 56 & 57.

- (b) Grammar (applied) : 25 marks

- (1) Finding of word-roots 5 marks
 (2) Explanation of the rules of *talilat* 10 marks
 (3) Re-writing of a given Arabic passage with diacritical marks 5 marks
 (4) Finding of the *abwab* of verbs. 5 marks

- (c) Composition :

- (1) Writing of a letter in Arabic on a specified subject. 10 marks
 (2) Writing of fifteen sentences in Arabic on a given topic. 15 marks

PERSIAN

Paper I : Prose, Poetry & Translation 100 Marks

Text
 Translation from English/Urdu/Hindi into Persian

Text Prescribed :

1. Jahangir Nama
2. Zindagi-e-man
3. Dastanha-e-Hejazi
4. Rubaiyat-e-Khayyam
5. Ghaziliyat-e-Hafiz

Books Prescribed :

Nisabe Jadide Farsi, Jayyad Press, Delhi.

Paper II : Prose, Poetry and Translation

Text

Translation from English/Urdu/Hindi into Persian.

Text Prescribed :

1. Sarzamine Hind
2. Haji Baba (First five guftars)
3. Ghazaliyate Khusrav
4. Masnavi Maulana Rumi
5. Shaharvar

Paper III : Prose, Poetry, Translation & Essay

A. Text

B. Translation of an unseen passage from English/Urdu/Hindi into Persian

C. Translation of an unseen passage from Persian into English/Hindi/Urdu.

D. An Essay in Persian.

Texts Prescribed :

1. Mar zaban Nama
2. Urñ
3. Qa'ani
4. Bahar

Book Prescribed :

Nisabi Jadide Farsi, Jayyad Press, Delhi

Books Recommended :

Persian Grammar by Prof. K.S. Anne Lambton,
Cambridge University, (U.K.)

PHILOSOPHY

Paper I—(a) Ethics or (b) Foundations of Social Behaviour

(a) Ethics

100 marks

1. The nature of Ethics, morality and casuistry ; customary and reflective morality.
2. The object of moral judgement : motive and consequence, means and ends : Gandhiji's view of relation between means and ends.
3. Ethical theories of the west :
 - (i) Utilitarianism (Bentham and Mill)
 - (ii) Evolutionary theory (Herbert Spencer)
 - (iii) Kant's ethical theory : the Good Will ; categorical imperative duty for duty's sake.
 - (iv) Perfectionism : self-realization ; the true self (Green) ; individual and society : The organic conception of society and its difference from the theory of social contract ; the principle of mystation and its duties (Bradley).
 - (v) Intuitionism General nature of intuitionism as an ethical theory ; meaning of moral sense (Shaftesbury and Hutcheson), conscience (Butler) and rational intuition (Sidgwick).
3. The nature of virtue, relation of virtue and duty ; Plato's classification of virtues, Aristotle's theory of the mean ; nature of rights and their relation with duties.
5. Ethical justification of punishment : deterrent ; reformative retributive theories of punishment, moral responsibility ; human freedom as a postulate of morality.
6. Analysis of moral judgement according to Moore, Ayer and Hare. (only general knowledge of their basic positions is required.)
7. Moral progress and its criteria rationalization and socialization.

8. Indian ethical concepts.

- (i) The four purusarthas : Kama, Artha, Dharma, Moksa.
- (ii) The Yamas : Satya, Ahimsa. Asteya, Brahmacharya, Aparigraha, The Jaina view of mahavrata and annuv-rata.

The Eightfold path of BUDDHISTS. Gandhiji's view of non-violence and satyagraha.

- (iii) The Gita doctrine of Nisekama Karmayoga.

Books recommended :

- Dillie, William : *An Introduction to Ethics.*
 Macintyre, A : *A Short History of Ethics*
Urban : *Fundamental of Ethics.*
 Warnock, C.J. *Contemporary of Moral Philosophy.*
 Dasgupta, Surama *Development of moral Philo. ophy.*
in India.
 Desai, Mahadev *Anasakti Yoga (only the Introduc-*
tion by Mahadev Desai)

Paper I (b) *Foundations of Social Behaviour.* 100 marks

1. Personality, biological (Physiological-anatomical structure, intelligence) and social (culture and education) factors in the development of personality.
2. The psychological foundations of groups, crowd, Nation.
3. Leadership ; authoritarian and democratic leadership.
4. Media of mass communication ; role of media of mass communication in the formation of public opinion ; social control of the media
5. Tradition.
6. Social institutions ; family, ; marriage class and caste varnasrama.
7. Social concepts : Justice ; rights and obligations ; natural and political rights.

8. Social theories : Socialism, Communism ; Fascism, Democracy, Sarvodaya.
9. Secularism and theocracy.
10. Nationalism and Internationalism ; war and non-violence.
11. Dissent and the various modes of its expression ; Strikes, Satyagraha.

Books recommended :

- Woodworth R.S. : *Psychology.*
 Young, Kimball : *A Handbook of Social Psychology.*
 Sheriff and Sherif : *Social Psychology.*
 Davis, Kingsley : *Human Society*
 Prabhu. P. : *Hindu Social Organization*
 Asirvatham, E : *Political Theory (latest edition).*
 Joad, C.E.M. : *Introduction to Political Theory.*
 Benn and Peters : *Social Principles and Democratic State.*

PART I

1. Carvaka view of pramana and materialism.
2. Buddhism : Theories of Dependent Origination (pratyasamutpada) and momentariness (ksanikavada).
3. Jainism : svdavada
4. Nyaya epistemology : pramanas
5. Vaisesika theory of reality : Categories (padarthas)
6. Samhya account of Prakriti and its evolution : Purusa.
7. Vedanta : Views of Sankara and Ramanuja on Brahman, Maya, Jiva, Jagat (world) and Moksa.

Books recommended :

- Hiriyanna : *Outlines of Indian Philosophy*
 Datta and Chatterji : *An Introduction to Indian Philosophy*

PART II—*Western Philosophy*

1. Nature of Philosophy: relation of Philosophy to common-sense. Science and Religion.
2. Theories of truth : Coherence, Correspondence and Pragmatic.
3. Theories of Knowledge.
 - (i) Rationalism, Empiricism, Criticism
 - (ii) Idealism and Realism.
4. Theories of Reality :
 - (i) Realism, Conceptualism, Nominalism
 - (ii) Naturalism, Materialism
 - (iii) Idealism (Berkeley and Hegal)
 - (iv) Mechanism, Teleology, Emergence
5. Theories of Causation : Activity, Entailment and Regularity theories.

Books Recommended :

- Hospers, John : *An Introduction to Philosophical Analysis*.
- Ewing, A.C. *Fundamental Questions of Philosophy*.
- Randall and Buchler : *Philosophy—An Introduction*
- Titus : *Living Issues in Philosophy*

Or

- Paper III—(a) *Logic*
- (b) *Elements of Aesthetics And Philosophical classics*

Note : only those students who offer Philosophy as as subsidiary subject will be allowed to offer paper III (b)

(a) *Logic*

100 marks

(Note : The paper shall be set in three parts, A, B, C, carrying 40, 30 and 30 Marks respectively).

PART—(A)

1. Nature and definition of Logic.
2. Connotation and denotation of terms : relation between connotation and denotation ; distribution of terms.
3. Nature of propositions ; Four-fold classification of propositions : The square of Opposition.
4. Immediate inferences : Conversion, obversion, Contraposition and Inversion.
5. Structure of Syllogism : Figure and mood : Rules of syllogistic reasoning.

PART—(B)

6. Use of symbols in logic : the notion of logical form : truth and validity ; inference and implication.
7. Truth-Functional Logic : The notion of a truth function : different truth-functions : Negation Conjunctions, Disjunction, Material Implication, Material Equivalence, Sheffer's Stroke function ; Interdefinability of truth functions. Elementary truth-tables ; Tautologous Contradictory, and Contingent formulae. Translating ordinary language into symbolic language. Truth-tables as decision procedure. Shorter Truth-table method.

PART—(C)

8. Scientific Method : Nature of induction, Scientific induction, induction by simple enumeration ; distinction between induction and deduction. Definition of "cause"; Mills methods and their criticism. Nature and confirmation of Hypothesis in Science.

Books recommended :

- (1) Welton and Monahan : *Intermediate Logic*. University Tutorial Press : London. 4th Edition (1938).
- (2) Bisson and O'Connor : *Introduction to Symbolic Logic*. University Tutorial Press : London. 3rd Edition (1959).

- (3) Cohen and Nagel : *Introduction to Logic and Scientific Method*. Allied Publishers Private Ltd., New Delhi, 1st Indian reprint (1968).

Paper III (b) *Elements of Aesthetic and Philosophical classics* 100marks
(The paper shall be set in two parts. Candidates shall be required to answer Questions carrying at least from each part

40 Marks

Part—I—Elements of Aesthetics

1. The subject—matter of aesthetics.
2. The work of art : materials and medium ; form, content and subject-matter. Form in Literature ; Plot Character and style.
3. Representation.
4. Expression and feeling. The case of poetry. Beauty as objectified pleasure (Santayana).
5. The arts : architecture and sculpture ; painting and photography ; dancing and acting ; music and rhythm ; literature
6. The logic of talk about art, description, interpretation and evaluation.
7. Art experience : the concept of *rasa*.

Books recommended :

1. Virgil C. Aldrich : *Philosophy of Art*. Prentice—Hall (Foundations of Philosophy series) 1963.
2. J. Stolnitz : *Aesthetics* (Sources in Philosophy : A Mac Millian Series). 1965 ; pp. 41—74.
3. W. Charlton : *Aesthetics—an introduction*, Hutchinson University Library, London, 1970.
4. G. Santayana : *The Sense of beauty*, Dover Publication, Inc. New York, 1955.
5. M. Hiriyanna : *Art Experience*, Kavyalaya Publishers, Mysore, 1954. pp. 25—42.

Part—III—*Philosophical Classics*

(The prescribed material is meant for rapid reading. Candidates are not expected to answer textual questions)

1. Plato : *Apology*
2. *Bhagavad Gita* : Chapter II
3. Russell, Bertrand : *Sceptical Essays*, chapter - IXIII, XIV
4. *Kathopanisad*

PSYCHOLOGY

100 Marks

Paper—I *General Psychology and Statistics*

1. The Nature and Methods of Psychology
2. The Human Organism—Human Development and Physiological Bases of Behaviour.
3. The Sense and Sensitivity
4. Attention and Perception
5. Conditioning and Learning
6. Memory
7. Thinking
8. Motivation
9. Emotion
10. Intelligence
11. Personality and Personality Assessment
12. Conflict and Adjustment
13. Statistics : Frequency distribution & Graphic Methods
Measures of Central Tendency
Measures of Variability
Percentiles
Correlations (Pearsons and Spearman's R)
Nomral Probability Curve

Text Books :

1. Psychology : The Fundamentals of Human Adjustment : Fifth Edition by Norman, L. Munn, Femald & Femald
2. Manovigyan—Manvi Samayojan ke Mulya Siddhant by Norman L. Munn, Hindi version by Satish Chandra Sharma Raj Kamal Prakashan, Delhi—1972.
3. Statistics in Psychology and Education by H.E. Garrett, 1971 (6th Edition) Vakli, Felfet and Simsons Private Ltd. Bombay also Hindi version of this book.

Reference Books :

1. Introduction to Psychology by Clifford T. Morgan and Richard A. King (5th Edition), Tata Mc Grow—Hill Publishing Company Ltd. New Delhi.
2. Samanya Monovigyan by Nirmala Sherjung, (Hindi) published by S. Chand & Co., Ram Nagar, Delhi—1972.

Note Statistics portion carries 20 marks out of 100.

Paper—II *Social Psychology and Abnormal Psychology* 100 marks
(a) *Social Psychology* 50

1. Introduction to social Psychology—Definition, Nature and Scope and Methods.
2. Social Behaviour—social Learning, Social, Cultural and Environmental influences on personality and social behaviour.
3. Social Perception—
Evaluation Effects, Prejudice—Stereotypes, Empathy, Interpersonal and Intergroup Interaction.
4. Group Behaviour—Group Membership, Properties of Small groups, group structure, group Norms, Reference Groups, Interpersonal attraction in groups.

Text Books :

5. Leaders and Leadership—Definitions of leadership, Types of Leaders and Categories of Leadership, Characteristics of Leaders, Functions of a Leader.
6. Products of Social Interaction—Conformity, Obedience, Social Responsibility, Co—operation and Competition.
7. Behaviour in presence of others—social facilitation, Audience Anxiety, Embarrassment and Self Esteem, Concern with Social Reputation, Affiliation. Interpretation of Experience, Interpersonal distance and eye contact, Man as a crowd
8. Attitudes—Structure, Function and Components of attitude, Social influence and attitude change.

Text Books :

1. Social Psychology by L. Mann New York Willey 1973.
2. An Introduction to Social Psychology by Henry Clay Lindgren, Wiley Eastern Private Limited, New Delhi (for topics—1, II, III & V)
3. Samaj Manovigyan by Nagina Prasad Kitab Mahal, Allahabad—1969.

Reference Books :

1. Individual in Society by—
D. Krech, Richard S., Crutehfield and Egerton L. Ballachey—1962. Mc Graw—Hill Company, New York.
 2. Samaj Manovigyan by—
Rabindranath Mukherjee, Kitab Mahal, Allahabad-1973.
- II (b) *Abnormal Psychology* 50 Marks
1. Concept of Abnormality—Definition,
Comparison between abnormal and normal, old concepts, models, classification.

2. Causes of Abnormal Behaviour—
Faculty Biological, Faculty Psychological and Sociological
Faculty Developments.
3. Major forms of Neuroses—Clinical Picture & Dynamics.
 - (a) Anxiety Reactions
 - (b) Conversion Reactions
 - (c) Phobic Reactions
 - (d) Obsessive—Compulsive Reactions
4. Major forms of Psychoses—Clinical Picture and Dynamics
 - (a) Schizophrenia
 - (b) Manic Depressive Psychoses
5. Anti Social Psychopathic Reactions—Clinical picture and
Dynamics. Concept of Psychopathology.
 - (a) Antisocial Psychopathic Disorders
 - (b) Delinquent behaviour
 - (c) Criminal Behaviour
6. Mental Retardation—Concept of Mental Retardation,
Classification based on I.Q., Causes—Physiological and
Psychosocial.

Text Books :

1. Abnormal Psychology and Modern Life by James C.
Coleman, 5th Edition Bombay, Taraporevala—1970.
2. The disorganised personality by George W. Kisker
International Student Edition. Second edition.
McGraw-Hill, Kogakusha Ltd., 1972 (For Topic-
Concept of Abnormality)
3. Asamarya Manovigyan by Dr. Labh Singh and Dr.
Govind Tiwari Vinod Pushtak. Mandir, Agra (1971)

Personnel and Industrial Psychology for B.Com. (Hons) 100 Marks

Study of Human Factors in industry. Development scope and aim. Job Analysis. Psychological Testing in Industry. Interview and other methods of Selection. Nature of Work and Fatigue. Environmental Factors and Figure. Time and Motion Studies, Accidents. Motivation and Work. Job Satisfaction and Incentives. Leadership. Industrial Moral. Trade Union Movement in India. Changing Functions of Trade Union. Labour Management Problems.

Required Readings :

1. Tiffin M. C. Cormick — industrial Psychology
2. H. C. Ganguli *Industrial Productivity and Motivation. A Psychological Analysis* (Asia Publishing House, Bombay).

Book Reference :

1. Charles A Myers — *Industrial Relations in India* (Asia Publishing House, Bombay, 1967).

ECONOMICS

Paper I : Economics Systems and Micro-Economic Theory
Section A : *An Overview of Economic Systems and Organization.*

Central problems of an economy. Comparative Economic Systems : Modes of production-Feudalism, Capitalism and Socialism : their evolution and characteristics features (including role of modern corporation in a capitalist economy).

National product and its structure : concept ; circular nature of income flows ; methods and problems of estimation. National income estimation in India ; composition of GDP. Significance of various aggregates and their interrelationships ; national income and economic welfare.

National Capital : concept methods and problems of estimation. Inequalities of income and wealth : causes, effects and remedies. Inequalities of income and wealth in India Labour force : occupational structure, also with reference to India.

Section B : *Micro-Economic Theory*.

An elementary view of the Price Mechanism. Demand and Supply Analysis—Law of demand : Marshallian utility analysis and indifference curve approach (consumer's equilibrium and derivation of demand curve.

The Law of Supply—Concepts of elasticities of demand and supply—some practical applications of demand and supply analysis.

Returns to a factor and returns to scale—Internal and external economies and diseconomies—optimum combination of factors—concepts of cost and cost curves—concepts of average and marginal revenues—Profit maximising behaviour under different market conditions : perfect competition, imperfect competition and monopoly.

Pricing of factors : Supply and demand analysis. The concept of economic rent. Role of uncertainty.

Note : A separate discussion of land rent, wage, interest and profits is not required.

International specialisation : Theory of comparative cost
Note : With regard to each topic listed in Section A, due emphasis should be laid on analysis and not on a mere description of the relevant problem.

Suggested Readings:

1. Paul Samuelson, *Economics* (10th Edn). Chs. 2-6, 10, 20, 22-27, 34.
2. R. G. Lipsey, *An Introduction to Positive Economics* (4th edn.) Chs. 4, 5, 10, 11, 26, 27.
3. A. Leontive, *Political Economy, A Condensed Course*, Chs. 1, 2.

4. J. R. Hicks, *The Social Framework : An Introduction to Economics*. Chs. 10, 16, 17.
5. A. J. Brown, *Introduction to the World Economy*, Chs. 3, 8.

Paper II : *Macro-Economics : Analysis and Policy*

SECTION A : *Macro-Economic Analysis*

- (i) Macro-Economics : Elements of Keynesian Theory of Income and Employment : determination of the level of income and employment—the consumption function—saving, investment and the multiplier—determinants of investment.

(*Note* : No detailed discussion of liquidity preference is needed).

Keynesian Theory and underdeveloped countries

- (ii) Money : Definition and functions.

Supply of money : concepts and determinants.

Money and Prices : Quantity Theory of Money (Irving Fisher's version) : the Keynesian approach.

Inflation and deflation : Cost-push and demand-pull inflation—Effects of changes in the value of money.

Money supply and prices in India

SECTION B : **BANKING AND PUBLIC FINANCE**

- (i) Banking :

Commercial banking : Balance-sheet—Credit creation, limits to credit creation.

Central Banking : functions Methods of credit control. Reserve Bank of India : Monetary regulation.

- (ii) Public Finance :

Public expenditure : its increasing importance—factors responsible for—impact on production and distribution. Growth of public expenditure in India and factors responsible for it.

Public revenue : characteristics of a good tax system— incidence of taxes : a unit tax under (a) competitive market and (b) monopoly (also lump-sum tax) (Ad valorem tax and direct taxes excluded).

Principal features of the Indian tax structure
Role of (a) Fiscal and (b) Monetary policy in developing countries.

Federal Finance : Constitutional provisions; Findings and recommendations of the latest Finance Commission.

Note : With regard to each topic listed, due emphasis should be laid on analysis and not on a mere description of the relevant problem.

Suggested Readings

1. Paul Samuels, *Economics* (10th edn.), chs. 11-13, 15, 16 (Section B) 17, 18.
2. Richard G. Lipsey, *An Introduction to Positive Economics* (4th edn.) chs 34, 41, 42.
3. A.C.L. Day, *Outline of Monetary Economics*, chs. 1, 2, 11, 18, (pp. 243-49), 19.
4. Reserve Bank of India, *Money Supply in India : Concepts, Compilation and Analysis* (1977), Sections 1-3 (pp. 2-16) (New Series only.)
5. Reserve Bank of India, *Functions and Working* (1970), chs. 1, 4.
6. R.S. Sayers, *Modern Banking* (7th edn.), chs. 1, 2, 8 (Sections 1-3), 12.
7. A.W. Stonier and D.C. Hague, *A textbook of Economic Theory* (4th edn.) ch. 18.
8. T. Mathew, *Tax Policy : Some Aspects of Theory and Indian Experience*, chs. 2, 3, 8, 9.
9. P.E. Taylor, *Economics of Public Finance*, ch. 3, "Public Expenditure Trends and their Significance."
10. V.K.R.V. Rao, "Investment, Income and the Multiplier in and Underdeveloped Economy", in A.N. Agarwala and S.P. Singh (Eds.) *The Economics of Underdevelopment*.

Paper II : *Economic Development and Planning in India* 100 Marks

Section A : *Issues in development and Planning with Reference to India.*

Economic growth and development, Colonialism and underdevelopment with reference to India. Factors in development : capital formation (demand and supply side); Level of technology; institutional factors.

Population and economic development; demographic trends, urbanization and population policy. Problems of unemployment and disguised unemployment with reference to India.

Problems of Planning and Development : Strategy of planning : balanced and unbalanced growth; role of heavy industry, production vs. employment. Objectives of planning : growth, self-reliance, employment, reduction of inequalities and removal of poverty. Industrial policy; relative roles of public and private sectors; saving and investment in India; mobilization of financial resources for the Plans—Role of (a) deficit financing (b) foreign aid. A brief review of planning in India.

Note :— A detailed discussion of individual Plans is not required.

Section B : *Sectoral Aspects of Indian Economy.*

Agriculture : cause of low productivity; farm size and productivity; land reforms. Agricultural inputs : irrigation, fertilizers, seeds and pesticides—the green revolution; agricultural labour; the question of mechanization and appropriate technology in Indian agriculture; the problem of agricultural finance and marketing. Food Problem.

Industry : extent and pattern of industrialisation under the British rule. Leading issues in choosing a pattern of industrialisation (a) industrialisation and choice of appropriate technology; relative roles of cottage small scale and large scale industries; growth of monopoly and concentration of economic power; (b) role of foreign capital—multinational corporations. Industrial finance.

Changing structure of India's foreign trade in post-Independence period; trends in balance of payments, export promotion, import substitution and self-reliance.

Price behaviour and price policies in India.

Note : With regard to each topic listed, due emphasis should be laid on analysis and not on a mere description of the relevant problem.

Suggested Readings :

1. C.P. Kindleberger, *Economic Development* (2nd Edn.), Ch. I.
2. V.V. Bhatt, *Aspects of Economic Change and Policy in India* Ch. 2.
3. Ragnar Nurkse, *Problems of Capital Formation in Underdeveloped Countries*. Chs. 1-3.
4. Jagdish Bhagwati, *The Economics of Underdeveloped Countries*, (except chs. 15, 16, 19)
5. Praniti Chaudhuri, *Aspects of Indian Economic Development* Ch. 1.
6. Praniti Chaudhuri, *The Indian Economy; Poverty and Development* (Latest edn.) Relevant portions.
7. Government of India, *Economic Survey (Latest)*
8. Government of India *Five-Year Plan (Latest)* Relevant portions.

Note : A familiarity with the current literature on Indian economy is expected.

HISTORY

Paper I : (a) *History of India from the earliest times to 1000 A.D.*

1. The geographical background of Ancient Indian sub-continent—Main physical features—mountains, plateaus and river valleys, forests, and desert—routes, and lines of communications—Influence of geographic factors on history.

II. Sources of ancient Indian history—archaeology, literary sources, numismatics, epigraphy—accounts of foreign travellers.

III. *Elements of Prehistory and Protohistory :*

The significance of prehistoric researches—the sequence of stone age industries in India—Palaeolithic. Mesolithic and Neolithic cultures. Beginning of food-production—early settlements in Baluchistan and the greater Indus valley—the Indus or Harappan civilization. Post-Harappan cultures—beginning of iron age in India.

iv. *The Vedic Period :*

1. Vedic literature
2. Theories about the Aryas as a race and theory about the origin home of the Aryans.
3. Social and political organization, religious life, culture, and economic organization.

v. *Jainism and Buddhism—Social, Economic Religions and Political background.*

1. Causes of origin.
2. Social and Political base of the new sects.
3. Cultural life in the sixth century B.C.
4. Principles of Jainism and Buddhism.

VI. *Republics and Kingdoms 7th century B.C. 4th century B.C.*

VII. *Mauryan Rules c. 321-185 B.C.*

1. Mauryan kings, administration, social and religious life, economic system, decline of the Mauryas.

VIII. *Development in south Indian peninsula*

1. The early kingdoms
2. Social and economic organization—advent of Sanskrit culture
3. Sangam literature and its cultural significance

- IX. *Political development in north India in Post-Mauryan times.*
1. Foreign invasion—resistance and assimilation of the foreign elements : Indo-Greeks, Shaka, Parthians, Kushana.
 2. Shungas, Kanvas and Satavahanas
- X. *Social, Cultural and economic life in post-Mauryan times.*
- XI. *Gupta rulers—their rise and efflorescence*
1. Political achievements.
 2. Gupta administration.
 3. The economic conditions—change in agrarian organisation and trade and industry.
 4. Social orders, and institutions.
 5. Religious life; Vaishnav, Shaiv, Buddhist, Jain, religious observances—their significance.
 6. Art, sculpture architecture, literature, philosophy, science and technology.
 7. Decline of the Guptas.
- XII. *Harsha Extent and Nature of his kingdom*
1. Administration of Harsha
 2. Cultural conditions in his times : account of Hsuan Tsang, Vaishnav, Shaiv, Buddhist and other sects, art, architecture, literature, education-Nalanda--social orders, changes in agrarian system, trade and industry.
- XIII. *Political set-up and cultural conditions in southern Peninsula (A.D. 550-750)*
1. Kingdoms of the Deccan and south India-Pallavas and Chaulukyas.
 2. Social structure, Agriculture, trade and industry.
 3. Art, literature, sculpture, architecture religion.
- XIV. *Regional states (C.A.D. 650-1000) in northern India up to 1000 A.D.*
1. Origins of the Rajputs
 2. Rstrakutas, Gurjara-Pratiharas, Palas
 3. Contact with the west Asia, Invasion of the Arabs.

- XV. *Social and Cultural Conditions of Northern India*
1. Social institutions
 2. Agrarian systems and agrarian relation, trade and industry.
 3. Religion : Vaishnav, Shaiv, Tantri, Buddhist changes in religious beliefs.
 4. Art, sculpture, architecture, literature, regional literature.
- XVI. *Indian cultural, social and economic contact with South East Asia, West Asia other Mediterranean and Central Asia—*
- Hellenic
Persian
Hellenistic
Central Asia
South east Asia
East Asia—to be studied with special reference to trade, religion, art architecture, language literature.
- XVII. *Characteristics in Ancient Indian Culture—Acceptance and respect for diversity :—*
- Books recommended :*
- R.S. Tripathi, History of Ancient India (English & Hindi)
Romila Thapar, A History of India V.1 (English & Hindi)
Om Prakash, Panchina Bharata ka lithasa (Hindi)
A.D. Bhasem, The wonder that was India (English & Hindi)
D.D. Keshambi, The Culture and Civilization of Ancient India in its Historical Outline (Eng. & Hindi)
H.D. Sankalia, Prehistoric India (English)
Majumdar, Rauchaudhri Datta,—Advanced History of India.
K.A.N. Sastri & Srinivasachari—Advanced History of India
R. Le May—Culture of South East Asia.
D.N. Jha—Ancient India : an introductory outline (English, Hindi)
D.P. Singhal—India and world Civilization.

Note of Dissent on Paper 1 (a)

D.P. Singhal's *India and world civilization* should not be included in the list of recommended books or among works of reference because it has been done by one who has no competence to do it, especially in respect of ancient India for which a sound knowledge of Sanskrit, if not of Pali also, is required, which he does not possess. Besides, the book is too heavy for B.A. Pass Course.

- (b) HISTORY OF INDIA FROM 1000 A.D. to 1707 A.D.
1. Condition of Northern India 1000-1200.
 - (a) Rajput States—Nature of their polity and administration ; Society and economy.
 - (b) The Ghaznavi and Ghori Invasions. Factor Contributing to their success—Impact of the invasions on political, social and economic life.
 2. The foundation and consolidation of the Delhi Sultanate. The Ilbaris
 3. The Expression of Delhi Sultanate :
 - (a) The Khaljis : religion—Conquest on the North.
 - (b) Relations with the Deccan States—Khaljis and the Tughlaqs.
 - (c) The Tughlaqs.
 4. The Economic and Administrative Systems of the Delhi Sultanate :
 - (a) The Administrative system : Central Government, Iqtadari system.
 - (b) Administrative policy of Alauddin Khilji—Market Regulations.
 - (c) The Revenue system.
 - (d) Socio-Economic Life.
 - (e) Civil and military Administration of Feroz Shah Tughlaq.
 5. The North-West Frontier during the Sultanate Period.

6. The Disintegration of the Delhi Sultanate :
 - (a) The Lodis
 - (b) The Rise of the Vijayanagar Empire.
 - (c) The Rise of the Bahmani Kingdom.
7. Religious Movements :
 - (a) The Bhakti and Sufi movements : Kabir—Nanak
 - (b) The Rise and development the Sikh movement, upto 1707.
 - (c) The importance of Bhakti and Sufi movements on medieval society.
8. The Contest for Northern India : 1526-56 :
 - (a) Babar and Humayuns' struggle against the Afghans and the Rajputs—The Gujarat and Bengal Campaigns.
 - (b) Sher Shah—Administration of Sher Shah.
9. Consolidation under Akbar :
 - (a) Conquests : The Rajput States, Gujarat, Bengal.
 - (b) Rajput—Policy
 - (c) Concept of State.
10. The Mughal Administration—Central and Provincial Mansabdari system and army organisation—Revenue administration.
11. Political History of the Mughals—Jahangir to Aurangzeb
12. Indian Economy in the sixteenth and seventeenth centuries :
 - (a) Agrarian life—Production—Agricultural classes.
 - (b) Trade and Commerce : Fourteenth to seventeenth centuries—internal and foreign.
13. The Nobility and the Zamindars under the Mughals—their role in polity and economy.
14. The foreign policy of the Mughals : the North-West Frontier Policy.

15. The Deccan :
 (a) The Deccan after the decline of the Bahmani kingdom—Succession states.
 (b) Mughal Empire and the Deccan.
 (c) The Marathas & their administration.
16. Culture and Social life—Art and Architecture (1000-1707).

Books recommended :

1. A.B. Pandey
 (a) Early Medieval India. Also available in Hindi.
 (b) Later Medieval India. Also available in Hindi.
 2. Ishwari Prasad
 (a) History of Medieval India, also available in Hindi.
 (b) History of the Mughal Empire. Rise and Fall of the Mughal Empire : also available in Hindi.
 3. R. P. Tripathi
 History of South India. Also available in Hindi.
 4. Nilkanta Sastri
 History of India Vol. I. Mughal Govt.
 5. Romilla Thapper
 6. U. N. Day
 Life and Condition of the People of Hindustan Also available in Hindi.
- Books for further readings*
1. K.M. Ashraf
 Society and Culture in Medieval India
 2. A. Rashid
 Comprehensive History of India, Vol. V. Also available in Hindi in two volumes.
 3. Mohd. Habib and K.A. Nizami
 North India Social life during Mughal Period.
 4. P. N. Ojha
 Trade and Industry in Mughal India.
 5. Kulashreshtha

6. A. B. Pandey
 Society and Government in Medieval India.
7. Khushwant Singh
 History of Sikha Vol. I First five chapters only.
8. Tarachand
 Influence of Islam on India Culture, also available in Hindi.
9. Yusuf Husain
 Glimpses on Medieval Indian Culture.

Paper II : History of Modern India (1707 to 1955)

Paper III : (a) History of Great Britain (1485 to 1914) and

(b) History of Europe (1815-1939)

Note : The detailed courses of Readings for Paper II and for Paper III will be made available before the commencement of the academic year 1980-81.

POLITICAL SCIENCE

Paper I : Political Theory

1. What is Politics
2. State
3. Sovereignty; the pluralist theory of sovereignty
4. The Liberal theory of the origin, nature and function of the state; the Marxist theory of the origin, nature and function of the state.
5. Rights, Liberty, Equality, Property, Justice.
6. Theory of Democracy.
7. Political Theories : Liberalism, Marxian Socialism, Evolutionary Socialism, Fascism.

1. What is Politics : Different views about the nature of politics with special reference to politics as the study of power-economic, political and ideological—in modern society.

2. Two views of politics as a dimension of the social process : the Liberal view with its emphasis on the preminence of politics as state or group activity, concilisting interests and promoting common good; the Marxist view with its emphasis on the preminence of politics as a form of class-struggle.

3. The inter-disciplinary approach to the study of politics with due reference to the usefulness of other Social Sciences for the study of politics.
4. The state, its definition and the changing notions of the state in the tradition of political thought.
5. The rise and growth of the modern nation-state.
6. The concept of sovereignty with due reference to its development and the notions of *de jure*, (Austin) *de facto*, Political and popular sovereignty.
7. Pluralist theory of sovereignty with special reference to the views of Maclver and Laski.
8. The liberal theory of the origin and nature of the state with special reference to the social contract theories of Hobbes, Locke and Rousseau.
9. The historical theory of the origin of the state with special reference to the views of Maclver.
10. The Marxist theory the origin and nature of the state with special reference to the ideas of Engels and Lenin.
11. The liberal theory of the nature and function of the state with special reference to the lesser-faire individualism (Bentham, Adam Smith) and positive liberalism (J.S. Mill, Green, Maclver and Laski).
12. The Marxist theory of the nature and function of the state in capitalist socialist and developing societies.
13. Theories of Rights, with special reference to the liberal-individualist theory of Rights, Laski's theory of Rights and the Marxist theory of Rights.
14. The concept of Liberty; negative and positive liberty; the Marxist concept of freedom.
15. The concept of Equality; the legal, political and socio-economic dimensions of Equality; the relation between Liberty and Equality.
16. The concept of Property, the liberal theory of property; Laski's theory of property; the Marxist theory of property.

17. The concept of Justice; legal, political and socio-economic dimensions of justice; the relation between liberty, equality, property and justice.
 18. Democracy, the concept and its development; the classical-liberal theory of democracy; the contemporary pluralist and elitist theories of democracy.
 19. The Marxist theory of democracy; the concept of the dictatorship of the proletariat.
 20. Liberalism and its development especially as a theory of the capitalist-welfare state; and contemporary liberal political theory (concepts of liberty, democracy, incremental change) together with a critical assessment of liberalism today.
 21. Marxism and its development especially as a theory of social and political change; and contemporary Marxist political theory (concepts of class-struggle, revolution, alienation, freedom) together with a critical assessment of Marxism today.
 22. Evolutionary socialism and its development especially as a theory of parliamentary socialism, and contemporary socialist political theory (including a study of such concepts as 'Fabianism', Democratic Socialism, Welfare State, Socialist pattern of Society) together with a critical assessment of evolutionary socialism today.
 23. Comparative study of Liberalism, Marxism, and Evolutionary socialism as political theories in terms of their adequacy for coping with the problems of the Third World countries (achievement and consolidation of national independence and securing of socio-economic progress for the people).
 24. Fascism, its development as theory of reaction and counter-revolution; the socio-economic basis, historical emergence and theory and practice of fascism together with the Liberal and Marxist critiques of fascism.
- Readings :*
- Maclver, The Modern State Chapters : Introductory, 1, 5, 6, 7, 9, 15 & 16 (Oxford, 1926)
- Harold J. Laski, The State in Theory and Practice (London : Allen and Unwin, 1967)

S.I. Bonn, and R.S. Peters, *Social Principles and Democratic State*, Chapters 4, 5, 6, 7, 10, 12 and 15 (London : Allen and Unwin).

Harold J. Laski, *A Grammar of Politics*, Introduction and Part I (London : Allen and Unwin, 1948)

Ernest Barker, *Principles of Social and Political Theory*.

S.H. Chang, *The Marxist Theory of the State*, ch. 3 (New York, 1965)

V.I. Lenin, *The State and Revolution*.

Eddy Asirvatham, *Political Theory* (Tenth revised edition English and Hindi.)

N.N. Agarwal, *Principles of Political Science* (Hindi Edition), Vikas, 1971.

Ralph Miliband, *The State in Capitalist Society*, Nicholson and Widenfeld.

Ralph Miliband, *Marxism and Politics*, Oxford University Press.

Hall Droper, *Marx's Theory of Revolution*, Monthly Review.

Note : The Scheme of Examination and detailed Courses of Readings for Paper II and Paper III will be made available before the commencement of the academic year 1980-81.

SOCIOLOGY

Paper I : Principles of Sociology

1. Nature and scope ; (a) Historical development of Sociology ; (b) Relationship with other social Sciences ; Social Anthropology, History, Psychology (b) Concepts and Institutions ; (a) Status (b) Social Structure, (c) Social Stratification, (d) Social Control, (e) Socialisation, (f) Culture, (g) Social Change, (h) Family and Kinship, (i) Economic Institution, (j) Political Institutions, (k) Religion.

Readings :

1. Radcliffe-Brown, A.R. *Method in Social Anthropology*. Bombay Asia Publishing House, 1958. (Part I, Chs., 1 to 4, and Part II, Chs. 1 to 4.

2. Evans-Pritchard, E.E. ? *Social Anthropology*. London : Cohen and West, 1951.

Hindi Translation :

Tripathi, S, *Samajik Manav Vigyan*. Delhi : Rajkamal Prakashan, 1966.

3. Beattie, J., *Other Cultures* : London : Cohen and West, 1951 (relevant Chapters).

4. Bottmore, T.B., *Introduction to Sociology*. London : Allen and Unwin, 1962 (Relevant Chapters).

Hindi Translation :

Upreti, H., *Samajshashtra*, Jaipur : Rajasthan Visvavidyalaya 1968

5. Linto, R., *The Study of Man*. New York : Appleton Century Crofts, 1936. (Chapter 8.)

6. Radcliffe-Brown, A.R., *Structure and Function in Primitive Society*. London : Cohen and West, 1952.

7. Evans-Pritchard, E.E., *Essays in Social Anthropology*. London, Faber and Faber, 1962 ; Chs. 3 ;

8. Bohannan, Paul, *Social Anthropology*. New York : Holt Rinehart and Winston 1963. (Relevant Chapters)

9. Wells, A., *Social Institution*. London : Heinemann. 1970 (Relevant Chs.)

10. Mitchell, D. *Sociology*. London : University Tutorial Press, 1959 (Relevant Chs.)

11. Firth, R., *Human Types*. London : Nelson. 1961. (Relevant Chas.)

12. Shapiro, H.L. (ed.) *Man, Culture and Society*. New York : Oxford University Press, 1960. (Chs, VII & VIII) Hindi translation :

- Srivastava, R.L. Manay, Sanskriti tatha Samaj : Bhopal ;
 Madhya Pradesh Hindi Granth Academy, 1971.
13. Dube, S.C., Manav aur Sanskriti. Delhi : Rajkamal, 1960
14. Sachchidanand, Samajik Nirvighyan ki Bhoomika, Patna ;
 Bihar Hindi Granth Academy, 1973.

Paper II : N.B. The Scheme of Examination and the detailed
 Course of Readings for Paper will be made
 available before the Commencement of the
 academic year 1980 - 81.

GEOGRAPHY

Paper I :— *Physical Geography* 100 marks 3 hours

Section A : *Geomorphology*

1. Interior structure of the earth and Isostasy.
2. Earth movements.
 - a) Diastrophism—folding and faulting
 - b) Earthquakes and volcanism, and
 - c) Theory of continental drift.
3. Weathering and denudation.
4. Davis's concept of Cycle of erosion.
5. Major landform-features of :
 - a) fluvial
 - b) glacial
 - c) desert
 - d) Karst, and
 - e) coastal areas.

Section B : *Climatology*

1. Atmosphere—Composition and structure.
2. Insolation, horizontal distribution of temperature, lapse rates, and inversion of temperature.
3. Pressure belts and general circulation of the atmosphere here.

4. Humidity, condensation, cloud types, types of precipitation' and world distribution of rainfall.
5. Airmasses and fronts, and tropical and extratropical cyclones.
6. Concept and criteria of Koeppen's climatic classification.

Books Recommended :

1. Strahler, A.N., *Physical Geography*, 1975.
2. Finch, V.C., Trewartha, B.T and Hammond, E.H, *Physical Elements of Geography*, McGraw Hill, N.Y.
3. Monkhouse, F.J., *Principles of Physical Geography*, Hodder & Stoughton, London, 1977.
4. Trewartha, G.T., *An Introduction to Climate*.
5. Worcester, P.G., *Text-book of Geomorphology*
6. Varal, M., Bhautik Bhugol, Central Book Depot, Allahabad.
7. Tikka. R.N., Bhautik Bhugol, Kedar Nath Ramnath Meerut.

Paper II :— *Human and Economic Geography* 100 marks
 30 hours

Section A : *Human Geography*

1. Man and Environment : Determinism and possibilism.
2. Races of mankind and its world distribution.
3. Factors influencing distribution, and growth of population, and world pattern of population distribution and growth.
4. Causes and consequences of international migration and world migration patterns in the twentieth century.
5. Types of rural settlements. Origins and evolution of urban settlements. Patterns of urbanization in the world.

Section B : Economic Geography

1. Types of farming :

- (i) Subsistence farming—rice;
- (ii) Dairy farming;
- (iii) Commercial farming—Wheat and
- (iv) Plantation agriculture—Tea

2. Mineral and energy resources :

- (i) Iron ore;
- (ii) Coal;
- (iii) Petroleum, and
- (iv) Water power.

3. Industries :

- (i) Factors influencing location of industries;
- (ii) World distribution pattern of iron and steel industry and cotton textile industry,

Books Recommended :

1. Alexander, J., Economic Geography, Prentice Hall.
2. Bengston and Van Royen : Fundamentals of Economic Geography Prentice Hall, New Delhi, 1967.
3. Chaudhuri, M.R. Economic Geography, Oxford and IBH, New Delhi, 1969.
4. Dickens, S.N. and Pitts, F.R., Introduction to cultural Geography, 1970.
5. Broek JOM & Webb, J.W. : A Geography of Mankind, McGraw Hill, 1976.
6. Trewartha, G.T., A Geography of Population : World Patterns, John Wiley & Sons.
7. Hudson, F.S Geography of Settlements, Plymonk McDo-nald and Fvan, 1976.
8. Viswanath Tiwari and Ram Shiromani Pandey, Arthik Ewam Manav Bhugol Ka Swarup.
9. Kaushik, S.G., Manav Bhugol.

10. Jain, P. Arthik : Bhugol Ki Sameeksha Rastogi Publica-tions, Meerut.

11. Karan, M.P. Manav Bhugol Ke Siddhanth Kitabghar, Kanpur, 1976.

MATHEMATICS

for

B.A.(HONS.) (OTHER THAN ECONOMICS)

Paper I : Algebra, Calculus and Analytic Geometry. 100 marks

3 hours

(i) Algebra

Definitions with illustrations of a group, a field and vector space. The system of complex numbers introduced as a system of ordered pairs of real numbers. De Moivre's Theorem and its simple applica-tions. Relation between roots and coefficients of an equation. Evalua-tion of the symmetric polynomial in the roots of cubic and biquad-ratic equations.

Set of matrices over a field. Algebra of matrices, Determinant as a function on the set of $n \times n$ matrices over a field. Simple prop-erties of determinants of orders 3 and 4 Multiplication of determinants Adjoint of a matrix. Inverse of a matrix. Cayley-Hamilton Theorem. Characteristic roots and characteristic vectors of a matrix. Rank of a matrix and its invariance as a result of elementary row and column transformations of a matrix-study of systems of linear equation with not more than four unknowns. Symmetric and skew-symmetric. Her-mitian and skew-Hermitian matrices.

(ii)—Calculus and Analytic Geometry I

Review Unit : (The real number system, Representation of real numbers as points on the real line, the notion of distance and an interval on the real line. The concept of real functions and their graphs. Derivatives of polynomial and trigonometric functions and of their simple of combination.)

Neighbourhood of a point on the real line. Notion of limit of function. Algebra of limits. Continuity of a function at a point and on an interval, example of continuous and discontinuous functions with geometrical illustrations, algebra of continuous functions, composition of continuous functions.

Derivative of a function at a point and on an interval, geometrical interpretation of derivative, derivative as a rate of measure, algebra of derivable functions, Derivability of composite functions. Inverse functions and their derivatives, derivative of Implicit functions and derivatives of functions defined parametrically. Derivative of logarithmic, exponential, and inverse trigonometric functions. Hyperbolic and Inverse hyperbolic functions and their derivatives. Derivatives of higher orders and Leibnitz rule, Tangents and normals, subtangents and subnormals.

Scalar and vector products, Triple products.

Second/higher degree equations representing straight lines. Bisectors of angles of a pair of intersecting lines, Coplaner lines, Pair of skew lines, lines and shortest distance between skew lines, Joint equation of pair of planes.

Paper II—Calculus and Analytical Geometry 3 hours 100 marks

(ii) *Calculus and Analytic Geometry II*

Review Unit : (Primitives of functions and their calculation in simple cases, Integration by substitution and by parts. Application to determination of areas under plane curves in simple cases.)

Integration by Partial Fractions, Integration of rational and irrational functions. Definite integral as the limit of a sum. Reduction Formulae. Evaluation of areas and lengths of curves in the planes. Formation of differential equations and solution of differential equations of the first order.

Coaxal system of circles. Pole, Polar and their related properties, Orthogonal circles. Equations of Parabola, ellipse and hyperbola in standard forms. Elementary properties of these curves. Classification of curves of second degree.

(ii) *Calculus and Analytic Geometry III*

Curvature radius of curvature, asymptotes, singular point. Tracing of standard curves. Partial Differentiation. Euler's Theorem on Homogeneous functions. Evaluation of volumes and surfaces. Areas of solids of revolution. Centre of gravity, Linear differential equations with constant coefficients. Homogeneous linear differential equations.

Analytical study of spheres, quadric cones and cylinders.

MATHEMATICS FOR B.COM (HONS.)

Paper I—Calculus and Algebra

Properties of the real number system as a complete ordered field explicitly stated. Representation of real numbers as points on a line. Real functions Graphs of real functions such

as $y = x^2$, $y = x^3$, $y = \sqrt{1-x^2}$, $y = ax^2 + bx + c$, $y = x$.

Polynomial functions, trigonometric and inverse trigonometric functions. Exponential and logarithmic functions Limit and continuity of functions defined on intervals. Discontinuities of functions.

Derivatives. Algebra of derivable functions. Derivatives of higher orders. Leibnitz rule. Partial differentiations. Maxima and Minima of functions of one variable.

Primitives. Methods of obtaining primitives (i) Standard forms (ii) Substitution (iii) Integration by parts (iv) Partial fractions. Definite integrals. Reduction formulae.

Formation of differential equations and solutions of differential equations of first order.

The system of complex numbers. De Moivre's Theorem and its simple applications. Relations between roots and coefficient of an equation.

Determinants. Simple properties of determinants of order three and four. Multiplications of determinants.

Matrices as rectangular arrays of numbers. Algebra of Matrices. Transpose of a matrix. Symmetric, Skew-Symmetric, Hermitian and Skew-Hermitian matrices. Singular and non-singular matrices.

Adjoint of a matrix. Inverse of a matrix and criteria for the existence of a square matrix. Cayley Hamilton Theorem (without proof).

Applications of determinants and matrices to the solutions of a system of linear equations with not more than four unknowns.

B.A. Hons. (Economics)—*Subsidiary Mathematics*

Paper I—Algebra

Analytic Geometry and Calculus

Algebra :

The system of complex numbers. De Moivre's. Theorem and its simple applications including Trigonometric series.

Relations between roots and co-efficients of a polynomial equation. Evaluation of the symmetric polynomials in the roots of the cubic and biquadratic equation.

Matrices as rectangular arrays of numbers. Algebra of matrices. Determinants. Simple properties of determinants. Multiplication of determinants of orders two and three. Singular and non-singular matrices and the criteria for singularity. Adjoint of a matrix. Inverse of a matrix. Discussion of Vectors, Euclidean space of dimension and interpretation of matrices as linear transformations. Characteristic roots and characteristic vector, Cayley—Hamilton theorem. Rank of a matrix and its invariance under elementary row and column transformations. Rank as row rank and as column rank of a matrix. Study of systems of linear equations with not more than three unknowns. Quadratic forms. Positive-and semi-definite forms.

Analytic Geometry (1)

Loci represented by first degree equations. Analytical study of straight lines in a plane and of planes and straight lines in space.

Calculus (3)

Sequences. Limit of a sequence. Convergent sequences. Statement of the result that a bounded monotone sequence of real numbers is convergent. Infinite series and their convergence. Geometric series. Comparison test, Root test, Ratio test and illustration of more tests of conver of a series.

—, Analytical Geometry and Optimization theory.

Calculus and Analytic Geometry (8)

Properties of continuous functions. Definition of uniform continuity and Statement of the theorem that a continuous function on a closed bounded interval is uniformly continuous. Rolle's theorem. Mean value Theorems and Applications. Graphs of real functions such as

$$y=x, y=x^2, y=x^3, y=a x^2+bx+c, y=\frac{1}{x}, y=\sqrt{1-x^2}$$

Equations of a circle, parabola, hyperbola and ellipse in standard forms and their elementary properties.

Derivatives of higher orders. Leibnitz Rule. Statement and Illustration of Taylor's Theorem with Lagrange's and Cauchy's and form of remainders. Taylor's series and Mc Laurin's series. Series expansions of $\sin x$, $\cos x$, $\exp x$, $\log (1+x)$. Indeterminate forms.

Functions of two or three variables. Partial differentiation.

Euler's theorem on homogeneous functions.

Primitives. Definite Integral. Methods of obtaining Primitives :— (i) Standard forms, (ii) substitution, (iii) integration by parts. Primitives of polynomials, rational, trigonometric, exponential, and logarithmic functions. Reduction formulae. Definite integral as the limit of a sum.

Linear differential equations with constant coefficients. Systems of first order linear differential equations with constant coefficients. Homogenous linear differential equations.

Optimization Theory (2)

Maxima and minima of functions of one variable. Maxima and minima of functions of two or three variables. Simple cases only, Lagrange's method of undetermined multipliers.

Convex sets and convex functions. Properties of convex functions. Linear Inequalities. Simple illustrations of Simplex method and Kuhn—Tucker theory.

Limit and continuity of functions defined on intervals. Discontinuous functions. Derivatives. Derivative as a rate-measure and as the slope of tangent to a curve. Derivatives of sums and products of functions. Derivatives of composites of functions. Derivatives of inverse functions. Polynomial, Rational, Trigonometric, Inverse trigonometric, Exponential and Logarithmic functions and their derivatives.

Mathematical Statistics

Subsidiary Subjects for B.A. (Hons.) Examination

	<i>Duration (HRS)</i>	<i>Marks</i>
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At the end of the Second Year Examination, 1981

Paper I : Probability, Statistical Methods, Time Series and Index Numbers	3	100
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Paper II : Probability Distributions, Statistical Inference and Applications of Statistics.	3	100
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Note I :—A Student offering Mathematical Statistics as Subsidiary Subject will not be allowed to offer Mathematical Statistics as an Optional Paper for the Part III Examination in Mathematics.

Note II :—Besides preceptorials 4 periods will be devoted to the teaching of each theory paper per week.

Detailed courses of Reading

Paper I— *Probability, Statistical Methods, Time Series and Index Numbers.*

Random Experiment. Discrete Sample space. Events, their union, intersection, etc. Probability—Classical, Relative frequency and axiomatic approaches. Conditional probability and independence of events. Basic laws of probability. Probability of at least one event. Geometrical probability. Bayes' theorem, Random variable, probability in continuum, Mathematical expectation and its laws.

Variance and co-variance. Bivariate distributions. Marginal and conditional distributions. Easy problems related to all these topics.

Measures of location and dispersion. Moment, Sheppard's corrections (without proof) for moments upto fourth order. Cumulants. Measures of Skewness and Kurtosis. Elements of the Theory of attributes. Association and Contingency. Correlation and linear regression for 2 variables. Rank correlation. Curve fitting by least squares.

Time-series—its components, methods of moving average and curve fitting for trend. Seasonal Indices.

Index Numbers and their formulas. Fixed and chain-base methods. Requirements of good index number. Construction of cost of living index and wholesale price—indices. Indices of industrial production.

Paper II—*Probability Distribution, Statistical Inference and Applications of Statistics.*

Moment generating function and Cumulant generating function. Characteristic function

Bernoulli trials. Distribution—Binomial, Poisson, Normal, Geometric, Uniform, Triangular, Exponential, Double Exponential, Cauchy Multinomial Beta and Gamma. Limiting forms of the Binomial and Poisson distributions.

Chebyshev's lemma. Weak law of large numbers. Central limit theorem for identical variates.

Multiple correlation and partial correlation for three variates only. Concepts of sampling distribution and standard error. Derivation of Sampling Distribution of (10) mean of random sample from normal population (ii) sum of squares of standard normal deviates. Properties of t and F distributions (without derivation). Large sample test for mean and proportion, Uses of Chi-square for Multiple correlation partial and partial correlation for three variates only.

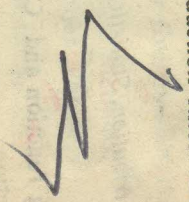
Concepts of sampling distribution and standard error. Derivation of Sampling. Distribution of (i) mean of random sample from normal population (i) sum of squares of standard normal deviates.

Properties of t and F distributions (without derivation), large sample tests for mean and proportion. Uses of Chi-square for test of independence, homogeneity and goodness of fit. Uses of t and F-statistics for a single mean, difference of two means, single variance, equality of two variances, regression coefficients, coefficient of correlation. Analysis of variance—one-way and to—way classifications.

Advantages of statistical quality control, construction, use and interpretation of control charts for mean, range, fraction defective and number of defects. Acceptance sampling. Concepts of OC, ASN, AOO and AOQL.

Statistics in Psychology and Education, Standard score and normalise scores. Intelligence Quotient.

Vital Statistics, Birth and death rates. Standardised death rates, Gross and Net reproduction rates. Elements of life—table.



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