

UNIVERSITY OF DELHI 210

SCHEME OF EXAMINATION

AND

COURSES OF READING

FOR

B.A. (Pass) Course in Philosophy, Psychology, Geography, History, Political science, Economics, Sociology, Commerce, Mathematics, Mathematical Statistics, Music, Education, Physical Education

Part I	Examination, 2002
Part II	Examination, 2003
Part III	Examination, 2004

PL/6/1



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A. Prasad
Officer-in-Charge Special Duty
Publication Division
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Syllabus applicable for Students seeking admission to the B.A. (Pass) course in the Academic Year 2001-2002

Price Rs. : 40/-

COMPANIONARY COPY

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UNIVERSITY OF DELHI

Scheme of Examination and other Information

BACHELOR OF ARTS (PASS) B.A. (PASS) EXAMINATION

Every candidate shall be required to take English and one of the Modern Indian Languages namely Hindi, Urdu, Bengali, Panjabi, Sindhi, Tamil, Telugu, Kannada, Malayalam, Marathi, Gujrati and two subjects from the following subjects :

History, Economics, Philosophy, Mathematics, Political Science, Sociology, Sanskrit, Geography, Psychology, English (Elective), Sindhi, Malayalam, Kannada, Education, Physical Education, Music, Classical Language.

A candidate, can also offer one of the Modern Indian Language namely, Hindi, Urdu, Bengali, Panjabi, Tamil or Telugu as an elective subject. But such a candidate will not be permitted to take this Compulsory paper in the same language and will offer in lieu thereof one of the subject noted above which he has not otherwise offered.

Provided that candidates who did not offer Hindi, Urdu, Bengali, Panjabi, Sindhi, Tamil, Telugu, Kannada, Malayalam, Marathi or Gujarati for the Senior School Certificate Examination of the Central Examination of an Indian University or an examination conducted by some public body in India and recognised as equivalent to either of the aforesaid examination shall be permitted to offer in lieu of Modern Indian Language a subject from the B.A. (Pass) Course which he has not otherwise offered out of the subjects which he has otherwise offered :

1. Economics
2. History
3. Philosophy
4. Political Science

No candidate shall be permitted to offer Music as a subject of study for B.A. (Pass) Course unless he has passed the Senior School Certificate Examination or an equivalent examination with Music as one of the subjects. Where Music has not been offered as a subject for Senior School Certificate or an equivalent examination, admission will be made on the basis of the result of a test conducted by the Department of Music.

Note :- For the purpose of this proviso, persons who have passed the following examinations will not be deemed to have passed an examination in Hindi, Urdu, Bengali, Panjabi, Sindhi, Tamil, Telugu, Kannada, Malayalam, Gujarati, or Marathi, as the case may be :—

1. Lower Hindi, Lower Urdu or Lower Bengali of the Senior Cambridge Indian School Certificate Examination.
2. Hindi Examination prescribed for Science Group student at the end of the IX class for the Higher Secondary Examination conducted by the Central Board of Secondary Education, New Delhi.
3. Compulsory Test in Elementary Hindi of the Central Board of Secondary Education, New Delhi, or similar compulsory test prescribed for the Matriculation or equivalent examination of the Indian University or Boards.
4. Elementary Hindi included as part of the Examination for the Intermediate Examination conducted by the Board of High School and Intermediate Education, U.P.
5. Hindi included in the S.S.L.C, Examination of the Government of Kerala.
6. Elementary Hindi included as part of the Intermediate Examination conducted by the Central Board of Secondary Education, Ajmer.

SCHEME OF EXAMINATION PHILOSOPHY

Part-I First Year Examination

Paper I— Logic or Social and Political Philosophy

Marks : 100

Part-II Second Year Examination

Paper II—Ethics or Aesthetics

Marks : 100

Part-III Third Year Examination

Paper III—Elements of Indian Philosophy or Elements of Western Philosophy

Marks : 100

PSYCHOLOGY

Part I

Paper I. General Psychology and Statistics

100 Marks 3 hrs.

Part II

Paper 2(a) Social Psychology

50 Marks 2 hrs.

Paper 3(a) Practicum-I (General Experiments)

50 Marks 3 hrs.

Part III

Paper 2(b) Abnormal Psychology

50 Marks 2 hrs.

Paper 3(b) Practicum-II (Mental Testing)

50 Marks 3 hrs.

Note :

- (i) In Practicum 3(a) each student is expected to perform 8 experiments during the year. Similarly in Practicum 3(b) each student will perform 8 tests during the year. The lists of Experiments/Tests will be supplied by the Department.
- (ii) Each Practicum will be of 3 hours duration (one session). In Practicum 3(a) the candidate will be required to perform one experiment and in 3(b) one test.
- (iii) The distribution of 50 marks in each Practicum will be as follows :
 1. Experiment/Test : 30 Marks
 2. Viva-Voce : 10 Marks
 3. Practical Note Book : 10 Marks
- (iv) The submission of Practical Note Book at the time of Practical Examination is mandatory.

GEOGRAPHY

Part I Examination :
Paper I : Physical Geography 100 marks

Part II Examination :
Paper II Human Geography 100 marks

Part III Examination :
Paper III : Economic Geography 100 marks

HISTORY

Part I Examination :
Paper I : (a) History of India from the earliest times to 1000 A.D. 100 marks

OR

(b) History of India from 1000 A.D. to 1707 A.D.

Part II Examination

Paper II : History of Modern India from 1707 to 1950 100 marks

Part III Examination :

Paper III : Any one of the following :

(a) History of Great Britain 1485 to 1914.

(b) History of Europe 1115 to 1939

POLITICAL SCIENCE

Part I Examination :

Paper I : Political Theory 100 marks

Part II Examination :

Paper II : Indian Governments & Politics 100 marks

Part III Examination

Paper III : Comparative Government and Politics 100 marks

ECONOMICS

Part I Examination :
Paper I : Economic Systems and Micro-Economic Theory 100 marks

Part II Examination :
Paper II : Micro-Economic : Analysis and Policy 100 marks

Part III Examination :
Paper III : Economic Development and Planning in India 100 marks

Note : Ten questions (five from each Section) in all will be set and the students would be expected to attempt 14 questions at least Two from each Section.

SOCIOLOGY

Part I Examination :
Paper I : Principles of Sociology 100 marks

Part II Examination :
Paper II : Sociology of India 100 marks

Part III Examination :
Paper III : Social Theory and Social Structure 100 marks

COMMERCE

Part I Examination :
Paper I : Business Organization & Management 100 marks

Part II Examination :
Paper II : Fundamentals of Accounting 100 marks

Part III Examination :
Paper III : Auditing and Business Law 100 marks

B.A. (PASS) MATHEMATICS

First Year : Paper I : Algebra and Calculus
PART A : Algebra PART B : Calculus

Second Year : Paper II.

Geometry, Vector Calculus and
Differential Equations.

PART A : Geometry Equations

PART B : Vector Calculus and Differential

Third Year : Paper III.

Real Analysis and Mechanics/
Statistics

PART A : Real Analysis PART B : Mechanics/Statistics
Scheme of Examination :

(i) Each paper will be of 100 marks and will have three hours
examination.

(ii) Each part will be of 50 marks and will be divided into 3 sec-
tions. The candidate will have to answer only one question
from each section with a provision for internal choice in each
section.

(iii) There will be examination at the end of 1st Year, 2nd Year
and 3rd Year.

Teaching Schedule :

(i) 6-8 lecturers per week will be the teaching norm to cover
each paper.

(ii) Adequate number of preceptorials will be provided as per the
University norms.

MATHEMATICS STATISTICS

Part I Examination :

Paper I : Probability Statistical Methods
Times Series and Index Number
100 marks

Part II Examination :

Paper II : Probability Distributions, Numerical
Mathematics, Vital and Educational
Statistics
100 marks

Part III Examination :

Paper III : Statistical Inference, Design of
Experiments and S.O.C.
100 marks

MUSIC

Part I Examination :

Paper : Biographies of Musicians
Composers, Musicologists, etc.
Paper II : Practical I
50 marks

Part II Examination :

Paper III : History of Indian Music
Paper IV : Practical II
50 marks

Part III Examination :

Paper V : Theory of Indian Music
Paper VI : Practical III
50 marks

Note : (i) Each theory paper shall be of 3 hours duration
and shall carry 50 marks.

(ii) The duration of Practical papers shall be decided
by the joint Examiners and each Practical paper
shall carry 50 marks.

EDUCATION

Part I Examination :

Paper I : Education and Society
100 marks

Part II Examination :

Paper II : Child Psychology
100 marks

Part Examination :

Paper III : History of India
Education (Since 1800)
100 marks

PHYSICAL EDUCATION

Part I Examination :

Paper I : (A) History and Principles
of Physical Education and
Yog Asana (without
mantras)
50 marks

(B) Practicals	50 marks
<i>Part II Examination :</i>	100 marks
<i>Part II : (A) Human Anatomy, Physiology and Elementary Practice or sports Medicine</i>	50 marks
(B) Practicals	50 marks
<i>Part III Examination :</i>	100 marks
<i>Paper III (A) Health Education</i>	50 marks
(B) Practicals	50 marks

**हिन्दी भाषा की अनिवार्य परीक्षा
(कम्पलसरी टेस्ट इन हिन्दी)**

100 अंक, 3 घंटे

(उन विद्यार्थियों के लिए जिन्होंने किसी परीक्षा-सत्र (बोर्ड) की हिन्दी की कोई निश्चित परीक्षा उत्तीर्ण न की हो)।

100 अंक और 3 घंटे का एक प्रश्नपत्र होगा जिसमें निम्नलिखित खंड होंगे

- (1) अनुप्रयुक्त व्याकरण तथा रचना 50 अंक
(2) पाठ्य पुस्तक 50 अंक

**DETAILED COURSES OF READING
PHILOSOPHY**

Part I First Year Examination

Paper I—Logic or Social and Political Philosophy Marks : 100

Part II Second Year Examination

Paper II—Ethics or Aesthetics Marks : 100

Part III Third Year Examination

Paper III—Elements of Indian Philosophy or Elements of Western Philosophy Marks : 100

Notes :

- (a) Students who have Philosophy as a subsidiary subject are allowed to opt for Paper I and, either paper II or Paper III.
(b) Students and teachers are encouraged to discuss philosophical problems with emphasis on (i) gender and (ii) human rights education.

**PAPER I - LOGIC OR SOCIAL AND
POLITICAL PHILOSOPHY**

PAPER-I (FIRST ALTERNATIVE) : LOGIC

SECTION-A

1. Terms : Distinction between connotation and denotation of terms. Distribution of terms.
2. Propositions : Distinction between sentence and proposition. Types of Aristotelian categorical propositions.
3. Theory of the Square of Opposition of categorical propositions. The problem of existential import.
4. Laws of Conversion, Obversion, and Contraposition of categorical propositions.
5. Syllogism : Figures and Moods of valid syllogistic arguments; rules governing different Figures; fallacies of syllogistic arguments.
6. Informal fallacies.

Weightage : 40 mark

SECTION-B

7. Definition of truth-function; different truth-functions : Negation, Conjunction, Alternation (or Disjunction), Conditional (or Material Implication), Biconditional (or Material Equivalence), Sheffer's Stroke function. Interdefinability of different truth-functions.
8. Truth tables as a decision procedure. *Reductio ad absurdum* method.
 - (a) Use of truth tables for deciding consistency (contingency), inconsistency (contradiction), and validity (tautology).
 - (b) Use of truth tables for showing implication and equivalence between propositions.
 - (c) Truth tables as a procedure for deciding validity/invalidity of truth-functional arguments.
9. Logical form; truth and validity.
10. Symbolizing ordinary language into truth-functional language.

Weightage : 40 marks

SECTION-C

11. Distinction between induction and deduction. Scientific induction. Cause and condition. Mill's methods of experimental inquiry and their criticism. Scientific explanation and its evaluation. Scientific hypotheses and their appraisal.

Weightage : 20 marks

Note : For scope of discussion on informal fallacies, please consult Irving Copi's INTRODUCTION TO LOGIC.

Text Books Recommended—

- Irving Copi : *Introduction to Logic*. Macmillan, New York 1961, 6th edition 1982.
- Cohen and Nagel : *Introduction to Logic and Scientific Method*. Routledge and Kegan Paul, London, 1934.
- Latta and Machbeth : *Elements of Logic*. Macmillan and Company, London, 1929; St. Martin's Press, New York, 1956

Basson and O' Connor : *An Introduction to Symbolic Logic*. University Tutorial Press, Oxford, 1962.

Hindi translation of Copi's *Introduction to Logic* by Sangam Lal Pandey.

PAPER-I (SECOND ALTERNATIVE)

SOCIAL AND POLITICAL PHILOSOPHY

SECTION-A

1. Society and social regulation. Obligation to obey the law. Rights : Natural, Moral and Legal.
2. Justice and Equality : egalitarianism; the rule of law.
3. Distributive Justice.
4. Institution of Property.
5. Freedom as a Political Ideal.
6. Sovereignty of the State and its moral basis.
7. Political Obligation and Civil Disobedience.
8. Democracy and its justification.

Weightage : 50 marks

SECTION-B

9. Anarchism; Feminism; Secularism; M. N. Roy's Radical Humanism. Marxism (*The Communist Manifesto*); Vinoba's Concept of Swaraj (Vinoba Bhave's *Swaraja Sashtra*). Tagore's Concept of Internationalism; Gandhi's Critique of Modernity.

Note : Students are required to attempt five questions taking two from each Section A & B.

Weightage : 50 marks

Text Books recommended :

- D. D. Raphael : *Problems of Political Philosophy*. The Macmillan Press, New York, 1976 (revised edition).
- S. I. Benn and R. S. Peters : *Social Principles and The Democratic State*. Allen & Unwin, London, 1959.

PAPER II (FIRST ALTERNATIVE) : ETHICS

SECTION-A

1. Conventional and reflective morality.
2. Aristotle's concept of well-being. Kant's conception of Goodwill, Duty, and Categorical Imperative. Butler's theory of conscience. Mill's utilitarianism.
3. Gītā's concept of *niskāmakarma* (disinterested action). Five *yamas* (moral virtues) : *ahimsā*, *satya*, *asteya*, *brahmacarya*, and *aparigraha*.
4. Gandhi's conception of *ahimsā* (non-violence) and *satyāgraha* (zeal for truth); and means-ends relation.

Weightage : 60 marks

SECTION-B

5. The Value of Life : Suicide and Euthanasia.
6. Punishment and responsibility; Capital Punishment.
7. Expression of Dissent : Terrorism.
8. Moral attitude to the environment including animals.

Weightage : 40 marks.

Text Books Recommended :

- William Frankena : *Ethics*, Prentice-Hall, Englewood, Cliffs, N.J., 1963.
- J L Mackie : *Ethics : Inventing Right and Wrong*. Harmondsworth, Middlesex, 1977.
- Ray Ballington : *Living Philosophy : An Introduction to Moral Thought*, New York, 1993.
- Jon Nuttall : *Moral Questions: An Introduction to Ethics*. Macmillan, London, 1993.

PAPER-II (SECOND ALTERNATIVE) :

AESTHETICS

1. Nature and scope of aesthetics; philosophical non-philosophical approaches to the study of aesthetics; aesthetics and art criticism.

2. Structure of a work of art; its material, medium, form and content, subject-matter, goal and style.
3. Fine arts and crafts; pure and applied arts. Fine arts distinguished; plastic and performing arts; literature as an art; plot and characters; aesthetic evaluation of film as an art. Art and morality.
4. Theories of art : (a) Imitation (Plato and Aristotle), (b) Illusionism (Aldrich), (c) Representationism, (d) Expressionism (Collingwood and Langer), and (e) Communication (Tolstoy).
5. Nature and function of aesthetic judgement and aesthetic predicates.
6. Theories of beauty. Appreciation of beauty in art and nature. Meaning and truth in art.
7. Aesthetic experience, meaning and significance of disinterestedness, aesthetic attitude, aesthetic taste.
8. Theories of *rasa*, *alankāra*, *dhvani* and *sādhāranīkaraṇa*.
9. Indian view of art with special reference to painting, sculpture, music, dance and literature. The cultural and social base of Indian art.

Recommended Text Books :

- Aldric, Virgil C., *Philosophy of Art*. Prentice-Hall, Englewood Cliffs, N.J., 1963.
- Stolnitz, J., *Aesthetics*. Macmillan, New York, 1965.
- Hospers, John, Ed. *Introductory Readings in Aesthetics*. Free Press, New York, 1969.
- Langer, Susan, *Feeling and Form*. Routledge & Kegan Paul, 1967
- Ray, Nihar Ranjan, *An Approach to Indian Art*. Punjab University, Chandigarh, 1974.
- Gupta, Shyamala, *Saundarya Tatva Mimamsa*. Seema Sahitya Bhavan, New Delhi, 1993.
- Jain, Nirjala, *Rasa Siddhanta Aur Saundarya Sastra*. National Publishing House, New Delhi.

Paper-III Elements of Indian Philosophy or
Elements of Western Philosophy

PAPER III (FIRST ALTERNATIVE) : ELEMENTS OF INDIAN
PHILOSOPHY

1. Plurality of Indian Philosophies despite common concerns and characteristics.
2. Cārvāka School : Admission of four bhūtas; origin of consciousness : ātma as embodied consciousness; perception as the only pramāṇa; artha and kāma as the only puruṣārthas. Importance of Cārvāka philosophy.
3. Early Buddhism : The middle way. Four Noble Truths and Eight-fold Path. Doctrine of momentariness; theory of dependent origination; normal theory; and Nirvāṇa.
4. Jainism : Anekāntavāda; saptabhāṅgi syādvāda; concept of substance. Nature of liberation.
5. Nyāya-Vaiśeṣika : Seven padārthas; four pramāṇas with emphasis on anumāna. Theory of causation. Nature of liberation.
6. Sāṃkhya-yoga : Prakṛti and Puruṣa. Evolution of Prakṛti. Theory of causation. Nature and plurality of puruṣas Nature of liberation.
7. Pūrva Mīmāṃsā : Śruti as pramāṇa. Dharma, vidhi, niṣedha and arthavāda. Śābdiabodha : Understanding the meaning of words ; understanding the meaning of sentences : ākāṅkṣā, yogyatā, sannidhi and tātparya. Doctrine of karma and apūrvā; Nature of svarga. Criticism of mokṣa as a puruṣārtha.
8. Śāṃkara Advaita Vedānta : Nature of Brahman, Māyā, Jīva and Jagat. Theory of causation. Nature of mokṣa. Moral theory.
9. Rāmānujā's Viśiṣṭādvaita : Distinction between Advaita and Viśiṣṭādvaita : Distinction between Advaita and Viśiṣṭādvaita. Nature of Īśvara, Māyā, Jīva and Jagat. Nature of Liberation, and the means to attaining it.

Recommended Text Books :

D.M. Datta and S.C. Chatterjee, *An Introduction to Indian Philosophy*, Calcutta University Press, Calcutta, 1939. Hindi translation of this book is also available.

M. Hiriyama, *Outlines of Indian Philosophy*. George Allen and Unwin, London, 1932. Hindi translation of this book is also available.

C.D. Sharma, *A Critical Survey of Indian Philosophy*

Nilima Chakrabarty, *Indian Philosophy : Path finders and system Builders*, Allied Publishers, New Delhi. 1992.

PAPER-III (SECOND ALTERNATIVE) :

ELEMENTS OF WESTERN PHILOSOPHY

1. Relation of Philosophy to Common Sense and Science. Value of philosophy.
2. Skepticism, Rationalism and Empiricism. Analysis of knowledge as justified true belief. Russell's distinction between knowledge by acquaintance and knowledge by description. A priori knowledge.
3. Naive Realism, Representative Realism and Idealism.
4. Mind-Body problem; Dualism and Materialism.
5. Theories of Truth : Correspondence, Coherence and Pragmatic theories.
6. Theories of Causation : Activity, Regularity, and Entailment theories.
7. Freedom versus Determinism.
8. Belief in God, Proofs for the existence of God. Theism and Pantheism. The problem of Evil.

Text Books Recommended :

John Hospers : *Introduction to Philosophical Analysis*. Prentice-Hall, Englewood Cliffs, N.J. 1953. Hindi translation is also available.

John Hospers : *Introductory Readings in Philosophical Analysis*. Prentice-Hall, Englewood Cliffs, N.J., 1968.

A.J. Ayer : *The Central Questions of Philosophy*, Harmondsworth, Penguin Books, 1977.

David Hamlyn : *Theory of Knowledge*, Macmillan, New York, 1970.

David Hamlyn : *Metaphysics*. Cambridge University Press, Cambridge,, 1984.

Tiūs : *Living Issues in Philosophy*.

PSYCHOLOGY

PAPER I

Part-I General Psychology and Statistics

Marks 100

Marks 80

1. *Introduction* : Nature, Scope and Methods of Psychology
2. *Biological Basis of Behaviour* : Nervous System, Endocrine System, Genes and Behaviour.
3. *Sensation and Perception* :
 - a. Vision and Audition : Sensory Coding of Colour, Pattern, Pitch and Loudness.
 - b. Nature and Determiners of Attention.
 - c. Perception : Definition, Perceptual Organization, Constancies, Space Perception, Role of Experience.
4. *Learning* : Conditioning, Cognitive, Observation Learning.
5. *Memory and Forgetting* : Stages of Memory (Encoding Stage and Retrieval) : Types of Memory (Sensory, STM and LTM, Causes of Forgetting, Improving Memory.
6. *Motivation and Emotion* : Nature of Motivation, Different types of Motives : Biogenic, Sociogenic, Nature and Theories of Emotions.
7. *Stress and Coping* : Causes of Stress, Reactions to Stress, Correlates of Stress, Coping with Stress.
8. *Personality* : Nature, Theories and Assessment
9. *Individual Differences* : *Mental Abilities* : Nature of Mental Abilities, Individual Differences in Intelligence, Nature vs Nurture.

Part-II Statistics

Marks 20

(4 Questions of 5 marks each)

1. *Measures of Central Tendency* : Mean, Median and Mode.
2. *Measures of Variability* : Range, Q_1 and S.D.
3. *Measure of Correlation* : Pearson's r (Raw-Score Method)
4. *Normal Probability Curve* : Its Characteristics—Theoretical Aspects.

Text Books

1. Brooia, K.D., & Puri, V.R. (Eds). *Foundations of Psychology*. New Delhi : Wiley Eastern (In Press).

2. Morgan, C.T., King, R.T., Weisz, J.R., & Schopler, J. (1993). *Introduction to Psychology*. New Delhi : Tata McGraw-Hill.
3. Minimum, E.W., King, B.M., & Bear, G. (1993). *Statistical Reasoning in Psychology and Education* (3rd Ed.). New York : John Wiley.

Reference Books

1. Papalia, D.R., & Olds, S.W. (1987). *Psychology*. N.York : McGraw-Hill International.
2. Feldman, R.S. (1990). *Understanding Psychology*. N.York : McGraw-Hill.
3. Garrett, H.E. (1981). *Statistics in Psychology and Education*. Bombay : Vakils, Felfer and Simons Private Ltd.

Paper 2 (a) Social Psychology

Marks : 50

Introduction :

1. *Understanding Social Behaviour* :
2. *Social Perception* : Knowing Others and Ourselves
3. *Attitudes* : Evaluating the Social World.

4. *Prejudice and Discrimination: When Different is Definitely Not 'Equal'*
5. *Social Influence: Changing others' Behaviour.*
6. *Groups and Individual Behaviour: The Consequences of Belonging*

Text Book

1. Baron, R.A., & Byrne, D. (1963). *Social Psychology Understanding Human Interaction.* New Delhi: Prentice Hall of India.

Reference Books

1. Feldman, R.S. (1985). *Social Psychology: Theories, Research and Applications.* N. York: McGraw-Hill.
2. Mishra, G. & Jain, U. (1994). *Samaj Manovigyan Ke Mool Adhar.* Bhopal: Bhopal Hindi Granth Academy.

Paper 2 (b) Abnormal Psychology

Marks 50

1. *Introduction:*
 - (a) Definition of Abnormal Behaviour
 - (b) Theoretical Perspectives
 - (i) Psychodynamic Perspectives
 - (ii) Behavioural Perspectives
 - (iii) Humanistic-Existential and Socio-cultural Perspectives
 - (iv) Neuro-Science Perspectives

2. *Behaviour Disorders: Clinical Picture and Dynamics*

- I *Anxiety Disorders:*
 - (a) Generalized Anxiety Disorder
 - (b) Phobia
 - (c) Obsessive-Compulsive Disorder
- II *Somato-form Disorders*
 - (a) Conversion Disorder
- III *Mood Disorders*
 - (a) Mania
 - (b) Depression
 - (c) Suicide
- IV *Schizophrenia*
 - (a) Catatonic
 - (b) Disorganized
 - (c) Paranoid
- V *Addictive Disorders*
 - (a) Alcoholism
 - (b) Drug Addiction
- VI *Personality Disorders*
 - Antisocial Personality Disorder

VII *Mental Retardation*

- (a) Concept
 (b) Causation
 (c) Rehabilitation

Text Book

Boottzin, R., & Acecella, R. (1988). *Abnormal Psychology: Current perspectives* (5th Ed.). New York : McGraw-Hill.

Reference Books

Carson, R.C., & Butcher, J.N. (1992). *Abnormal Psychology and Modern Life* (IX Ed.). New York : Harper Collins.

Paper 3 (a) General Experiments

Total of 8 Experiments to be performed during the year.

Marks : 50

Paper 3 (b) Mental Testing

Total of 8 Tests to be performed during the year.

Marks : 50

Reference Books

1. Freeman, F.S. (1962). *Theory and Practice of Psychological Testing*. New Delhi : Oxford IBH.
2. Postman, Leo. & Egan, I.P. (1985). *Experimental Psychology : An Introduction*. N. York : Harper. (Indian Edition).

GEOGRAPHY

Paper I—Physical Geography

100 marks
3 hrs.

Paper I : PHYSICAL GEOGRAPHY

Unit I : *Plate tectonic* : Interior structure of the earth; theory of plates and boundaries; earthquakes and volcanism; world mountain systems explained by plate tectonics.

Unit II : *Landforms of the world* : Structure—rock types and associated landforms, faults and folds and their associated landforms; process—types of weathering and associated landforms, agents of erosion and deposition and their associated landforms (Fluvial and aeolian); stage-with reference to normal cycle of erosion.

Unit III : *Landforms of India* : Himalaya—origin, landforms, and drainage; Thar desert—depositional landforms and drainage; coastal belt—emergent and submergent features.

Unit IV : *Climatic Phenomena* : Global heat balance; air masses, fronts and extratropical cyclones; thunderstorms and tropical cyclones; jet stream.

Unit V : *Climatic classification* : Bases of classification Koppen and Thornthwaite; Koppen's classification for the world.

Unit VI : *Climate of India* : The monsoons; rainfall distribution; tropical and extra-tropical cyclones; floods and droughts.

Unit VII : *Soils and vegetation* : Soil formation and characteristics; world distribution of soil types; world distribution of vegetation types.

Selected References :

1. Dayal, P., *Bio-Kriti Vigyan*, Shukla, Book Depot, Patna, 1986.
2. Singh, Savinder, *Bio-Kriti Vigyan*, Tara, Publication, Varanasi, 1976.
3. Tikka, R.N., *Bhauik Bhugol*, Kedar Nath Ram Nath, Meerut, 1989.
4. Ahmad. E., *Coastal Geomorphology of India*, Orient Longman, New Delhi, 1972.
5. Ahmed, E., *Geomorphology*, Kalyani Publishers, New Delhi, 1985.
6. Dayal, P., *A Textbook of Geomorphology*, Shukla Book Depot, Patna, 1990.
7. Lal, D.S., *Climatology*, Chaitanya Publishing House, Allahabad, 1986.
8. Menon. P.A., *Our Weather*, National Book Trust, Delhi, 1989.
9. Subramanyam, V.P., *Contributions to Indian Geography : General Climatology*, Heritage Publishers, Delhi, 1983.
10. Critchfield, H.J. *Samanya Jalyay Vigyan*, Madhya Pradesh Hindi Granth Academy, Bhopal, 1987.
(translation by Y.G. Joshi).
11. Spate, O.H.K. and Learmonth, A.T.A., *India and Pakistan A General and Regional Geography*, Methuen, London, 1965.
12. Strahler, A.N., *Physical Geography*, John Wiley and Sons, New York, 1975.

PAPER II : HUMAN GEOGRAPHY

Unit I : *Man-environment relationships* : Determinism, Possibilism, human ecology, environmental perception.

Unit II : *Emergence of man and cultural evolution* : Pleistocene environment and human origins; the dispersal of man; concepts of race and ethnicity, criteria and classification; and Neolithic Chalcolithic cultures; major cultural realms of the contemporary world.

Unit III : *World population* : Distribution and growth; Malthusian and demographic transition theories.

Unit IV : *Population Movements* : Types of migration, causes; world population movements in the modern periods : Internal migration in India.

Unit V : *Population of India* : Distribution and growth; relevance of population theories; age, sex, literacy patterns; population problems and policies.

Unit VI : *Human settlements* : Origin of urbanization in the world; global patterns of urbanization; central place theory.

Unit VII : *Settlements in India* : Census definition of rural and urban settlements; types and morphology of rural settlements; trends and patterns of urbanization; morphology of cities.

Selected References :

1. Kaushik, S.D. Sharma J.P., *Manav Bhugol* Rastogi Publication, Meerut.
2. Panda, B.P. *Jansankhya Bhugol*, M.P. Hindi Granth Academy, Bhopal, 1988.
3. Chandra, R.C., *A Geography of Population*, Kalyani Publishers, New Delhi, 1992.
4. Ramachandran R., *Urbanization and Urban Systems in India*, Oxford University Press, Delhi, 1991.
5. Singh, R.I. (ed.), *Rural Settlements in Monsoon Asia*, National Geographical Society of India, Varanasi, 1971.

6. Broek, J.C.R. and Webb, J.W., *Geography of Mankind*, Tata McGraw Hill, New York, 1978.
7. Carter, E., *The Study of Urban Geography* Arnold Heinemann, London, 1981.
8. Coon, G.S., *The Living Races of Man*, Knopf, New York, 1970.
9. Knowles, R. and Wareing, J., *Economic and Social Geography*, Heinemann Professional Books, London, (Available in Rupa Paperback).
10. Leong, C.H. and Morgan, G.C., *Human and Economic Geography*, Oxford University Press, London, 1987.
11. Preffer, J.E., *The Emergence of Man*, Harper and Row, New York, 1969.
12. Taylor, G. (ed.) *Geography in the 20th Century: A Study of Growth, Fields, Techniques, Aims and Trends*, Methuen, London, 1950.

PAPER III : ECONOMIC GEOGRAPHY

- Unit I :** Characteristics of human occupations : Gathering and hunting, pastoralism, shifting cultivation, subsistence agriculture, commercial agriculture, mining and industry.
- Unit II :** Agriculture : Von-thunen theory of landuse zonation; concepts of land capability and agricultural efficiency; agricultural innovations and productivity.
- Unit III :** World agricultural regions : Whittlesey's classification; commercial wheat farming in USA; mixed farming in Europe; commercial animal rearing in Australia and New Zealand
- Unit IV :** Crop regions in India : Methods and regionalisation; agricultural characteristics of: (1) rice dominated areas, (2) wheat dominated areas, (3) jowar and bajra dominated areas, and (4) tea plantation areas.
- Unit V :** Resources : Concept and classification; land and water resources in the world; coal, petroleum and hydro-electric resources and production in India; conservation of resources.

Unit VI : Industries : Weber's theory of industrial location; iron and steel industry in U.S.A. and India; cotton textile and sugar industries in India.

Unit VII : Economic development : Concept and criteria; identification and major characteristics of developed and developing countries; identification and characteristics of developed and backward areas in India.

Selected References :

1. Jain, P., *Arthik Bhugol Ki Samiksha*, Rastogi Publication, Meerut, 1983.
2. Mamoria, C.B., *Bharat Ka Arthik Evam Vanijya Ka Bhugol*, Sahitya Bhawan, Agra, 1981.
3. Mamoria, C.B., *Vanijya Ka Bhugol* : (Commercial Geography), Sahitya Bhawan, Agra, PP. 198-472.
4. Negi, B.S. *Sansadhan Bhugol*, Kedar Nath Ram Nath, Meerut, 1990.
5. Singh, K.N. and Singh, J., *Arthik Bhugol Ke Mul Tattva*, Tara Publications, Varanasi, 1969.
6. Guha, J.L. and Chatteraj, P.R., *A New Approach to Economic Geography : A Study of Resources*, World Press, Calcutta, 1978.
7. Mamoria, C.B., *Economic and Commercial Geography of India*, Shiv Lal Aggarwal, 1989.
8. Negi, B.S., *Economic and Commercial Geography*, S. Chand and Co. Ltd., New Delhi, 1986.
9. Sharma T.C. and Coutinho., *Economic and Commercial Geography of India*, Vikas Publishing House Pvt. Ltd., Delhi, 1988.
10. Hartshorne, T.A. and Alexander, J.W., *Economic Geography*, Prentice Hall Ltd., London 1988.
11. Jones, C.F. and Darkenwald G.G., *Economic Geography*, Subject Publication, Delhi (Indian Reprint) 1982.
12. Leong, C.H. and Morgan, G.C., *Human and Economic Geography*, Oxford University Press, London, 1987.

HISTORY

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

100 marks

OR

(b) History of India from 1000 A.D. to 1707 A.D.

(c) History of India from the earliest times to 1000 A.D.

I. The geographical background of Ancient India 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 Indian Palaeolithic, Mesolithic and Neolithic cultures. Beginning of food-production... early settlements in Baluchistan and the greater Indus valley...the Indus of 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 organisation, religious life culture and economic organization.

V. *Jainism and Buddhism—Social, Economic, Religious 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. Particples of Jainism and Buddhism.

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

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 Indian in Mauryan times*

1. Foreign invasion...resistance and assimilation of the foreign elements : Indo-Greeks, Shakas, Parthians Kushana.
2. Shungas, Kanvas and Satavahans.

X. *Social, Cultural and economic life in post-Mauryan times.*

XI. *Gupta ruler their rise and of efflorescence*

1. Political achievement.
2. Gupta administration.
3. The economic conditions—change in agrarian organisation and trade and industry.
4. Social orders, and institutions.
5. Religious life Vaishnav Shaiy, 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 condition in his times : acc. Hsuan Tsang, Vaishnav, Shiv, Buddhist and other art architecture, literature education—Nalanda orders, changes in agrarian system trend 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 Chalukyas.
2. Social Structure, Agriculture, trade and industry.
3. Art, literature, sculpture, architecture religion.

XIV. *Regional States C.A.D. 650-1000) in Northern Indian up to 100 A.D.*

1. Origins of the Rajputs.
2. Rasttrakutas, Gujprata-Pratihars Palas
3. Contact with the West Asia, Invasion of the Arabs

XV. *Social and Cultural Condition of Northern India (A.D. 650-1000)*

1. Social institutions.
2. Agrarian systems and agrarian, trade and industry.
3. Religion : Vaishnav, Shaiv, Tantrii, Buddhist charge in religious beliefs.
4. Art, sculpture, architecture, literature, regional literature.

XVI. *Indian cultural social and economic contacts with South, East Asia, West other Mediterranean and Central Asia—*

- Hellenic
Persian
Hellenistic
Central Asia
South East Asia
East Asia—*as by studied* with special reference to trade religion art architecture, language literature.

XVIII. *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 Parkash, Prachina Bharat ka Itihasa (Hindi) A.D. Bhascm. *The Wonder that was India (English & Hindi)* D.D. Keshambi. *The Culture and Civilization of Ancient India its Historical Outline (English & Hindi).*

H.D. Sankalia, *Prehistoric India (English)* Majumdar, Rau-chaudhuri Datta., *Advanced History of India* K.A.N. Sastri & Srinivaschari—*Advanced History of India* R. Le May—*Culture of South East Asia.*

D.N. Jha : *Ancient India (English, Hindi)*

D.P. Singhal—*India and World Civilization.*

1. (b) *History of Indian from 1000 A.D. to 1707 A.D.*

1. Condition of Northern, India 1000-1200
 - (a) *Rajpur States—Nature of their policy and administration : Society and economy.*
 - (b) *The Ghaznavi and Ghori Invasions. Factors Contributing to their success impact of the invasions on political social and economic life.*

2. *The foundation and consolidation of the Delhi Sultanate. The libraries.*

3. *The Expression of the Delhi Sultanate .*

- (a) *The Khiljis : religion Conquest on the North.*
- (b) *Relation with the Deccan States—Khiljis and the Tughlaqs.*
- (c) *The Tughlaqs.*

4. *The Economic and Administrative system of the Delhi Sultanate :*

- (a) *The Administrative system : Central Government, Iqtadari system.*

- (b) Administrative policy of Alauddin Kildji—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 Vijaynagar Empire.
 - (c) The Rise of the Bahmani Kingdom
 7. Religious Movements :
 - (a) The Bhakti and Sufi Movements : Kabir-Nanak.
 - (b) The Rise and development of 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 Humanyu's, 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) Religious Policy.
 - (d) 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 seventh 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 policy 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. Cultural 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.
 3. R. P. Tripathi

Rise and Fall of the Mughal Empire : also available in Hindi
 4. Nilkanta Sastri

History of South India. Also available in Hindi.
 5. Romilla Thapper

History of India Vol. I
 6. U. N. Day

Mughal Govt.

Books for further Readings :

1. K.M. Ashraf
Life and Condition of the People of Hindustan. Also available in Hindi 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. Society and Government in Medieval India.
 5. Kulashreshtha
History of Sikhs Vol. I First five chapters only.
 6. A.B. Pandey
Influence of Islam on Indian Culture, also available in Hindi.
 7. Khushwant Singh
Glimpses on Medieval Indian Culture.
 8. Tarachand
Glimpses on Medieval Indian Culture.
 9. Yusuf Husain
- Paper II—*History of Modern India : 1707-1950*
1. India in the early 18th century—Economic and Social Conditions.
 2. The decline of the Mughal empire.
 3. The rise of autonomous states with special reference to Marathas Mysore, the Punjab, Avadh, Kengal.
 4. British expansion in Indian (a) up to 1818 (b) 1818-56.
 5. Economic impact of British rule in India before and after 1857.
 6. Administrative reorganisation with special reference to Revenue & Judicial changes.
 7. The Revolt of 1857
 8. British Policy towards the Indian Princely States.

Books

9. British Indian Foreign Policy—Nepal, Afghanistan, Burma, Tibet.
 10. British Policies & Administrative Changes since 1858.
 11. Educational, Social & Religious Reforms—development of the Press and articulation of Public opinion.
 12. The rise and development of the nationalist movement in India up to 1914.
 13. Constitutional developments from 1958 onwards the significance of the Acts 1909, 1919, 1935.
 14. National Movement—the role of Mahatma Gandhi.
 15. Communalism in Indian politics.
 16. Growth of left movements.
 17. The achievement to Independence and the Constitution of 1950.
1. Grover, B.L. & Sethi, R.R.—*A new book on Modern India* (1979 edition).
 2. Sarkar & Dutta—Text book of Modern India.
 3. A Tripathi, Bipin Chandra, B. De—*Freedom Struggle—History Vol. II*,
स्वतंत्रता संग्राम (तर्क विस्तृत, नेतामल बुक ट्रस्ट—१९७८)
 4. M.S. Jain—*Adhunik Bharat* (Hindi).
 5. Ayudhya Singh—*Swadhinta Sangram* (Macmillan, Hindi).
 6. A.R. Desai—*Social Background of Indian Nationalism*
भारतीय राष्ट्रवादी नीति सामाजिक पृष्ठभूमि (शंकराचार्य १९७७) *
- Paper III (a) *History of Great Britain 1485-1914*,
1. The Monarchy, Nobility and Parliament—1485-1603.
 2. The Church in relation to Monarchy and Society—Renaissance : the English Reformation and its cultural social and economic and political effect 1485-1603.
 3. Economic change (agrarian, commercial); Voyages of discovery 1485-1603.

4. England's relation with Europe. 1485-1603. With special reference to Elizabeth.
5. Tensions in English Society 1603-1660—Aristocracy gentry, other Social classes—religious dissent.
6. Crown and Parliament, 1603-1649.
7. The Social and political characteristics of the Commonwealth and Protectorate, and its external relation 1649-1660.
8. Social and economic survey of rural and urban Britain, 1660-1760.
9. Crown, Parliament, and Public opinion, 1660-1793.
 - (a) Restoration and the Revolution beginning of party politics Problem of foreign and colonial policy.
 - (b) The early Hanoverians—the role of the whigs. British Colonial acquisition and losses in the late 18th century.
 - (c) Political and constitutional problem in the reign of George III till 1793. Pressures for Parliamentary reforms.
10. Agrarian Commercial and Industrial Revolution. 1760-1850 Policy of Laissez-fair'.
11. Movement for parliamentary reform 1793-1914—impact of French Revolution—attitude of political parties and changes in their character—significance of Social Economic Changes.
12. Working class movement—factory legislation.
13. British Colonial and foreign policy-1973-1914.

Text Books

J. THORN, R. LOCKYER, and D. SMITH—History of England (ELBS cheap edition available). E.H. CARTER and R.A.F. MEARS—History of Britain G.M. TREVILLAN—History of England RADHA K. SHARMA—Great Britain ka Adhunik Itihas.

For references :

- Pelican History of England Series
Mentor History of England Series
Partha Sarathi Gupta (ed.) Britain Ka Itihas.
(Delhi University Hindi Implementation Board)
Paper III (b) History of Europe 1815 to 1939.

Topics

1. European Society in 1815 : Changes in economic life and pattern of social classes till 1830.
2. European states system, 1815-1848 with special reference to the Vienna settlement, concept of Europe and the Eastern Question (1821-40).
3. Tempo of industrial, commercial and social change, 1830-1870.
4. Development of liberal and democratic movements in Europe, 1815-1849—Spain, France Germany and Russia.
5. Movements for national unification or national liberation 154, 1815-1849—Germany, Italy, Greece, Belgium and Hungary.
6. France under the Second Empire.
7. Russia, 1855-81—Administrative and agrarian reforms Growth of revolutionary movements.
8. The Eastern Question, 1840-1870 with special reference to Crimean War.
9. Unification of Italy, 1849-1870
10. Unification of Germany, 1849-1870.
11. Social Change and political development in France, Germany, Russia, 1870-1914.

12. The International States System, 1879-1914 : extent of tension and conflict—the significance of nationalism (with special reference to the Balkans) Colonialism, Imperialism Causes of World War I.
13. Impact of World War I on Europe—Revolutions in Russia and Germany.
14. Peace Settlement (1919-03)—Quest for security through the League of Nations and Disarmament (1919-36).
15. Collapse of liberal democracy and the rise of dictatorship with special reference to Italy and Germany.
16. Causes of World War II.

Suggested Readings :

1. Brij Nandan Mehta, Yurop ka Adhunik Itihas (in Hindi).
2. Lal Bahadur Verma, Adhunik Yurop (in Hindi)
3. Gordon Craig. Europa Since 1815.
4. Anthony Wood. Europe 1815-45 (Longmans 1964).
5. M.E. Barker—The Foundations of Modern Europe, 1789-1871 (Bells Modern Histories).
6. T.K. Derry & T.L. Jar Man. The European World. 1871-1961 (Bell's Modern History).
7. R. Albrocht Garrie—A Diplomatic History of Europe since the Congress of Vienna. (Methuen 1958).
8. Grant & Temperley—Europe in the 19th & 20th Centuries (Longman), (Eng. & Hindi).
9. E. Lipson—Europe in the 19th & 20th Centuries (AOU Black—Eng. & Hindi).
10. A. W. Birnic—Economic History of Europe (Methuen).

POLITICAL SCIENCE

Paper I : Political Theory

1. Nature and Significance of Political Theory
2. Power, Politics and Society
 - (a) What is politics?
 - (b) Different dimensions of power
 - (c) Theories of power in society : Class, gender and group perspectives.
3. The State
 - (a) The concept of the modern state, sovereignty, citizenship and rights
 - (b) Dominant perspectives of the modern state ; alternate perspectives
4. The Concepts of Freedom, Liberty and Equality, Property
5. Theories of Property
6. Justice and the Common Good
 - (a) Theories of distributive justice
 - (b) Notion of the common good
 - (c) Subaltern and Feminist perspectives.
7. Democracy and Political Participation
 - (a) Dominant Theories of democracy
8. Political Process and Social Change
 - (a) Theories of social change-revolutionary change and concept of incremental change.
 - (b) Development : concepts of development, socialist, liberal, Gandhian and others critiques of development models, the debate on welfare state.
 - (c) Development and environment the contemporary debates.

Essential Readings

1. David Held, *Political Theory and the Modern State*, London, Polity, 1994.

2. George McLennan, David Held and Stuart Hall, (eds.), *The Idea of the Modern State*, Milton Keynes, Open University Press, 1984.
 3. T.W. Hinsley, *Sovereignty*, Cambridge, OUP, 1986.
 4. J.M. Barbalet, *Citizenship*, Milton Keynes, Open University Press, 1988.
 5. Sygnumt Baumann, *Freedom*, Milton Keynes, Open University Press, 1988.
 6. Jeremy Waldron, (ed.), *Theories of Rights*, New Delhi, OUP, 1984.
 7. Bryan S. Turner, *Equality*, Chichester, Eilist Horwood Ltd., London, Tavistock, 1986.
 8. Ellen Frank, Paul Miller and J. Paul (eds.), *Liberty and Equality*, Oxford, Basil Blackwell, 1985.
 9. Graeme Duncan, (ed.), *Democratic Theory and Practice*, Cambridge, OUP, 1983.
 10. V.I. Lenin, *State and Revolution*, (Selected Works), Moscow, Progress Publishers, 1971.
 11. Karl Marx and F. Engels, *The Communist Manifesto*, (Selected works), Moscow, Progress Publishers, 1970.
 12. Ralph Miliband, *Marxism and Politics*, OUP, 1977.
 13. Thomas Pantham, *Political Theories and Social Reconstruction*, New Delhi, Sage, 1995.
- Additional Readings**
1. Giddens and Held, (eds.), *Class, Power and Conflict*, London, Macmillan Press, 1982.
 2. Lee Ann Osborn, *The Problem of Participation*, University Press of America, 1985.
 3. Harold Laski, *Grammar of Politics*, London, Allen and Unwin, 1948.
 4. J. Stankiewicz, *Approaches to Democracy*, Edward Arnol, 1980.
 5. David Held, (ed.), *Political Theory Today*, London, Polity, 1991-

6. Michael Lessnoff, (ed.), *Social Contract Theory*, Oxford Basil Blackwell, 1992.
7. John Rawls, *A Theory of Justice*, Cambridge, Harvard University Press, 1971.
8. Nozick, *Anarchy, State and Utopia*, New York, Basic Books, 1970.

Paper II—Indian Government and Politics

1. Overview of the Indian political system
 - (a) Problems facing India on the eve of Independence.
 - (b) The Constituent Assembly : perspectives on the Indian polity.
 - (c) Approach to liberty/freedom, equality and justice : Preamble, Fundamental Rights and Directive Principles.
 - (d) Nature of the Indian State.
 - (e) Social structure and the democratic process : perspectives, problems and trends.
2. Constitutional Provisions and Institutional Functioning
 - (a) The federal structure and processes : areas of tension, the issue of state autonomy.
 - (b) The parliamentary form of government : role and functioning of parliament.
 - (c) The President, the Prime Minister and the Cabinet : role and relations.
 - (d) Judiciary and the democratic process : judicial review and judicial activism.
 - (e) State governments and their functioning : relation between government and council of ministers.
 - (f) Panchayati Raj.
 - (g) Nature of administration and its role in the political and developmental process.
 - (h) Constitutional amendments : socio-political implications.
3. Party System and Elections
 - (a) Nature of the Indian party system : political parties, national and regional; role of pressure groups.

- (b) Elections and participation, voting behaviour determinants and trends.
- (c) Social movements : peasants and workers, tribes women, dalits, backward classes.

4. Development Process

- (a) Problems of underdevelopment : poverty, illiteracy regional imbalance; environmental degradation.
- (b) Strategy of development : goals, methods, planning process, performance, role of international agencies
- (c) National integration : secularism, communalism, caste and language as factors in politics, problem of violence.
- (d) Development process and foreign policy.

Essential Readings

1. Granville Austin, *The Indian Constitution, Cornerstone of a Nation*, Oxford, OUP, 1966.
2. D.D. Basu, *Introduction to the Constitution of India* New Delhi, Prentice-Hall, 1980.
3. Charles Bertheim, *India Independent*, London, MacGibbon, 1968.
4. S.K. Chaube, *Constituent Assembly of India Springboard of Revolution*, New Delhi, People Publishing House : 1973.
5. A.R. Desai, *Recent Trends in Indian National Movement* Bombay, Popular Prakashan, 1973.
6. Francine Frankel, *India's Political Economy 1947-1977* *The Gradual Revolution*, OUP, 1978.
7. Hassan, Jha, Khan (ed.), *The State, Political Process and Identity*, Sage, 1989.
8. W.H. Morris-Jones, *Government and Politics in India* Delhi, B.I. Publication, 1974.

9. M.V. Pylee, *Constitutional Government in India*, Bombay, Asia, 1977.
10. Susheela Kaushik, ed., *Indian Government and Politics*, (Hindi) Directorate of Hindi Implementation, Delhi University, 1990.

Additional Readings

1. Upendra Baxi, *The Indian Supreme Court and Politics*, Delhi, Eastern Book Company, 1980.
2. K.R. Bantwall, *National Power and State Autonomy*, Meerut, Meenakshi, 1979.
3. Paul Brass, *Politics of India since Independence*, Hyderabad, Orient Longman, 1990.
4. S.K. Chaube, *Hill Politics in Northeast India*, Bombay, Orient Longman, 1973.
5. A.R. Desai, *Social Background of Indian Nationalism*, Bombay, Popular Prakashan, 1966.
6. R.C. Dutt, *Secularism*, India International Centre, New Delhi.
7. Susheela Kaushik, *Elections in India : Its Social Basis*, New Delhi, K.P. Bagchi and Co., 1982.
8. Stanley Koehane, *Business and Politics in India*, Berkeley, University of California Press, 1974.
9. Atul Kohli, *Democracy and Discontent : India's Growing Crisis of Governability*, Cambridge, Cambridge University Press, 1991.
10. Rajni Kohari, *Politics in India*, Delhi, Orient Longman, 1971.
11. Iqbal Narain (ed.), *State Politics in India*, Meerut, Meenakshi, 1976.
12. S.H. Rudolph and L.I. Rudolph, *In Pursuit of Laxmi—The Political Economy of the Indian State*, Delhi, Orient Longman, 1987

13. S.L. Shakher, *The Indian Constitution*.
 14. M.P. Singh, *Lok Sabha Elections : Indian Politics in 1990s*, New Delhi, Kalinga Publications, 1992.
 15. *Women in Politics, Forms and Processes*, Har Anand, 1993.
 16. Upendra Baxi and Bhikhu Parekh, (ed.), *Crisis and Change in Contemporary India*, New Delhi, Sage, 1994.
- Paper III—Comparative Government and Politics**
1. The Evolution of Comparative Political Analysis : institutional approach, political systems approach, political-economy approach ; problems of comparative analysis.
 2. Classification of political systems : democratic and authoritarian systems, federal and unitary systems.
 3. Political Traditions and Revolutionary Legacies with special reference to the United Kingdom, United States of America, Russia, China and the developing countries.
 4. British Parliamentary System : Characteristics ; the powers of the British Parliament ; Crown, Cabinet and the Prime Minister.
 5. Socio-economic Dimensions of British Politics : development of British capitalism, contemporary trends ; changing nature of the welfare state.
 6. Political System of the United States of America : the President- election process, powers and role, contemporary trends; the US Congress-composition, powers and role of the House of Representatives and the Senate, the committee system, relationship of the President with the Congress; The Supreme court-judicial review.
 7. Socio-economic Dimensions of US Politics : evolution of capitalism in the US, contemporary trends; the social security system and the problem of poverty; race relations and minorities in the US and the UK—a comparative analysis.
 8. The Party System in the United Kingdom and the United States of America—a comparative study.

9. Decline of the former Soviet Union : causes of decline; the CPSU and Soviet politics; Soviet path of development and problems.
 10. The Chinese Political System : state structure; powers and role of the Communist Party of China, Party—state relations, contemporary trends.
 11. Socio-economic Dimensions of the Chinese Political System : the Maoist path of development, reforms under Deng Xiaoping; the nationalities question.
 12. Constitutional Patterns and Political Institutions in the developing countries : characteristics and trends; causes of political instability; the military in politics; democratic rights and political participation.
 13. The Emergence and Decline of the One-Party State and the Growth of Multiparty Democracy.
 14. Socio-economic Dimensions of Political Processes in the developing countries : nature and causes of underdevelopment; contemporary forms of neo-colonialism; ethnic tensions and political processes.
- Essential Readings**
1. J. Blondel, *An Introduction to Comparative Government*, London, Weidenfeld and Nicolson, 1969.
 2. C. Clapham, *Third World Politics : An Introduction*, London : Croom Helm, 1985.
 3. R.C. Macrides, *The Study of Comparative Government*, New York, Random House, 1955.
 4. A.H. Birch, *British System of Government*, London George Allen and Urwin 4th Edn., 1980.
 5. E.S. Griffith, *The American System of Government*, London, Methuen and Co. 6th edn. 1983.
 6. D. Lane, *State and Politics in the USSR*, Oxford, Basil Blackwell, 1985.
 7. J. Gittings, *China Changes Face : The Road From Revolution 1949-89*, Oxford University Press, 1989.

8. H.C. Hutton, *An Introduction to Chinese Politics*, London, David and Charles, 1973.
9. A. Coulson, *Tanzania : A Political Economy*, Oxford, Clarendon, 1982.
10. F. Halliday and H. Alavi, (ed.), *State and Ideology in the Middle East and Pakistan*, London, Macmillan 1988.
11. M. Kamrana, *Politics and Society in the Third World*, London, Routledge, 1993.

Additional Readings

1. G. Almond and V. Powell, *Comparative Politics : A Developmental Approach*, Little Brown, 1966.
2. J.A. Bill and Hardgrave, *Comparative Politics : The Quest for Theory*, Columbus, Merrill, 1973.
3. A. Liphart, "Topologies of Democratic Political Systems" in *Comparative Political Studies*, Vol. 1, pp. 3-44, 1966
4. H.J. Wiarda (ed), *New Developments in Comparative Politics*, Boulder Colorado, Westview Press, 1987.
5. D. Kavanagh, *British Politics, Continuity and Change*, Oxford, Oxford University Press, 1985.
6. C. Leys, *Politics in Britain, An Introduction*, London Heinemann, 1983.
7. R. Rose, *Politics in England, An Interpretation for the 80's*, Boston, Little Brown, 1980.
8. H.G. Nicolas, *The Nature of American Politics*, Oxford Clarendon, 2nd edn. 1986.
9. G. Peele, *Revival and Reaction : The Right Contemporary America*, Oxford, Clarendon, 1985.
10. A. Shund, *Gorbachev's Struggle for Economic Reform : The Soviet Reform Process*, London, Pinter Publishers 1989.
11. Vinod Mehta, *Soviet Economy*, New Economic Strides, New Delhi, Sterling, 1987.
12. C. Mackerras and A. Yorke, *The Cambridge Handbook of Contemporary China*, Cambridge University Press 1991.

13. Manoranjan Mohanty, *Chinese Revolution : Comparative Perspectives on Transformation of Non-Western Societies*, New Delhi, Ajanta, 1992.
14. Manoranjan Mohanty, *Cheeni Kranti*, Delhi University, J Hindi Implementation Directorate.
15. Harry Harding, *China's Second Revolution : Reform after Mao*, Washington, The Brookings Institution, 1987.
16. Gordon White, *Riding the Tiger : The Politics of Economic Reform in Post-War China*, Stanford, 1993.
17. Dorothy, J., Solinger, *China's Transition from Socialism: Statist Legacies and Marketing Reform*, Aman, 1993.
18. P. Pool, D. Commack and W. Tordoff, *Third World Politics*, : *A Comparative Introduction*, Houndmills Basingstoke, Macmillan, 1983.
19. P. Constantine and Danapoulos, (ed.), *Civilian Rule in the Developing World : Democracy on the March*, Boulder, Westview, 1992.
20. A.M.M. Hoogvelt, *The Third World in Global Development*, London, Macmillan, 2nd edn., 1982.

ECONOMICS

Paper I-Economics Systems and Mirco Economic Theory (100 marks)

(SECTION A : An Overview of Economics System and Organization)

- Central problems of an economy.
- Comparative Economics Systems : Modes of production—
Feudalism
Capitalism and Socialism ; their evolution and characteristic features (including role of modern corporation in a capitalist economy).
- The Indian Economic System.
- National product and its structure ; concept : circular nature of income flows : methods and problems of estimation.

45-50
45

National Income estimation in India : composition of G.D.P. 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 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 application 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, wages, interest and profit 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 Leontiev, *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 100 marks

(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* :

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.

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 an 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) (*Advocorem tax and direct taxes excluded*).

Principal features the India 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.

Notes : 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 Samuelson. *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), Section 1-3 (pp., 2-16 *New Series-only*).
5. Reserve Bank of India, *Function and Working* (1970) Chs. 1, 4.
6. R.S. Sayers, *Modern Banking* (7th edn.) 1, 2, 8, (Sections 8-9) 12.
7. A.W. Stonier and D.C. Hague. *A Text book 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.D. 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 an Underdeveloped Economy", A.N. Agarwala and S.P. Singh (Eds.) *The Economics of Underdevelopment*.

Paper III : Economic Development and Planning in India.

100 Marks

(SECTION A : *Issues in Developments and Planning with reference in 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 institutional factors
Population and economic development : demographic trend
urbanization and population policy. Problem 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 : cases of low productivity : farms size and productivity. land reforms. Agricultural inputs : irrigation fertilizers, seeds and pesticides—the green revolutions : 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 industrialization under the

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.
2. Concepts and Institutions : (a) Status and role, (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. *Methods on Social Anthropology*, Bombay : Asia Publishing House, 1958. (Part I Chapters 1 to 4, and Part II, Chapters 1 to 4).
2. Evans-Pritchard E.E. *Social Anthropology* London : Cohen and west, 1951.

Hindi Translation :

1. Tripathi S. *Samajik Manav Vigyan*. Delhi • Rajkamal Prakashan, 1966.
2. Beattie, J., *Other Cultures*, London : Cohen and West, 1951 (relevant chapters).
3. Bottomore, T.B. *Introduction to Sociology*, London : Allen and Unwin, 1962 (Relevant Chapters).

Hindi Translation :

1. Uperti, H., *Samajyashstra*, Jaipur Rajasthan Viswavidyala, 1968.
2. Linton, R., *The Study of Man*, New York : Appleton Century Crofts, 1936 (Chapter 8).
3. Radcliffe-Brown A.R. *Structure and Function in Primitive Society*, London : Cohen and West 1922. Relevant Chapters.
4. Evans-Pritchard, E.E., *Essays in Social Anthropology* London : Faber, 1962 (Chapter 3).

British rule : Leading issues in constituting a pattern of industrialisation : (a) industrialisation and of appropriate technology : relative roles of cottage, small scale and large scale industries (b) ownership, and control. Large scale industries, growth of monopoly and concentration of economic power. (c) role of foreign capital-multinationals. Corporation, 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. 1.
2. V.V. Bhatt. *Aspects of Economy 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. Pramit Chaudhri, *Aspects of Indian Economic Development*, Ch. 1.
6. Pramit Chaudhri, *The Indian Economics : 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.

8. Bohannan, Paul, *Social Anthropology*, New York : Holt Rinehart and Wintuson, 1963. (Relevant Chapters).
 9. Wells, A *Social Institutions*, London : Heinmann, 1970. (Relevant Chapters).
 10. Mitchell, D., *Sociology*, London : University Tutorial Press 1959. (Relevant Chapters).
 11. Firth, R., *Human Types*. London : Nelson, 1961. (Relevant Chapters).
 12. Shapiro, H.L. (ed.) *Man Culture and Society*, New York : Oxford University Press, 1960, Chapters VII & VIII).
- Hindi Translation :*
13. Dube, S.C. *Mana our Sanskriti*, Delhi Rajkama, 1960.
 14. Sachchidanand, *Samajik Vriyogyaniki Bhoonika*, Patna, Bihar Hindi Granth Academy, 1973
- Paper II : Sociology of India.**

1. Unity and Diversity.
2. The village community.
 - (a) significance of village studies :
 - (b) case studies from different regions : Karnataka, Tamilnadu, Orissa and Uttar Pradesh.
3. Tribal life in India.
4. The case system :
 - (a) general features :
 - (b) case and region :
 - (c) *Varna* and *jati* ;
 - (d) mobility in the caste system.
5. Marriage, family and kinship :
 - (a) choice of spouse :
 - (b) age at marriage :

- (c) marriage with relative :
 - (d) divorce, widowhood and remarriage :
 - (e) the joint family.
 6. Social change in rural India.
- Readings :*
1. Srinivas, M.N. "Social Structure" in *National Gazetteer of India* Vol. I Delhi Publication Division, 1905 (Chapter 9).
 2. Srinivas M.N., *Caste in Modern India and other Essays* Bombay Asia Publishing House, 1962 (Chapters, 3, 2, 5 & 9).
 3. Srinivas, M.N. (ed.) *India's Villages*, Bombay : Asia Publishing House, 1960 (pp. 1-41, 21-35, 90-102, 106-130)
 4. Ghurye, G.S., *Caste and Role in Indian*, 5th edition, Bombay : Popular Prakashan, 1969 (Chapter I).
 5. Goode, William J, *World Revolution and Family Patterns*, New York : The Free Press, 1960 (Chapter 5).
 6. Bose, N.K. *Tribal Life of India*, Delhi : National Book Trust, 1971.
 7. Mandelbaum, David G., *Society in India* Vol. I, Bombay: Popular Prakashan, 1970 (Chapters 3 to 8).

Note : Hindi Translation may be used wherever available.

Paper III : Sociological Theory :

1. Kari Marx :
 - (a) materialist interpretation of history :
 - (b) class and class conflict.
2. Max Weber :
 - (a) ideal types ;
 - (b) types of authority.
3. Emile Durkheim :
 - (a) social factors ;
 - (b) the normal and the pathological.

4. A.R. Radcliffe-Brow :
- (a) social structure;
 - (b) social function.

Robert Merton : manifest and latent functions.

Readings :

1. Aron, Raymond, *Made Currents in Sociological Thought*, London : Weidenfield and Nicholson, 1967 Vol. I, pp. 107-180; Vol. 2 pp. 11-97-177-252.
2. Gerth, H.H. and C. Wright Mills (eds.), *From Max Weber Essay in Sociology*, London : Routledge and Kegan Paul, 1948. Introduction.
3. Durkheim, Emile, *The Rules of Sociological Method*. Glencoe : The Free Press, 1958, Chapters I and 3.
4. Radcliffe-Brown, A. R., *Structure and Function in Primitive Society*, London : Cohen and West, 1952, Chapters 9 and 10.
5. Merton Robert K., *Social Theory and Social Structure*, New Ameriend Publishing Co., 1972, Chapter 8.

Note : Hindi translation may be used wherever avialable.

COMMERCE

Paper I : Business Organization and Management 100 marks

Nature of Business, Objectives of business (including social responsibilities).

Forms of business organization—Sole proprietorship, Partnership, Joint Stock Company and Cooperative Societies. Choice of a suitable form of organization.

Principals of Management :

Introduction— Nature, Scope and Functions of Management, Management and Administration. Coordination as the essence of management.

Function — Planning Organization, Directing and Controlling—Nature, Significance and Techniques.

Production Management :

Size of the firm—factors determining the size, Economics of large scale operations Production Planning and Control.

Finance :

Financial Planning—Basis
Capital Structure—Factors.
Sources of finance and their comparative evolution.
Securities Markets—Working and regulation of Stock Markets.
Special Financial Corporation—viz. IDBI, ICICI and I.F.C.

Personnel :

Functions of Personnel Department.
Selection. Training and Placement.
Job Evaluation and Merit Rating.
Methods of Wage Payment.

Marketing :

Concept and Functions, Channels of Distribution Factors, determining choice, Techniques of Sales Promotion : Advertising with special reference to copy and media.

State and Industry :

Industrial Policy, Industrial Licensing, Control of Monopoly, Public Enterprise—Forms and comparative evaluation with special reference to autonomy and public accountability.

Paper II : Fundamentals of Accounting :

Principles of Double Entry and the Accounting structure.
Special purpose subsidiary books.
Basic Accounting Concepts and Conventions.
Preparation of Final Accounts—Sole Trader, Partnership
Joint Stock Companies
Bank Reconciliation statement.

Bill of Exchange, Consignment and Joint Venture.
Average due date and account current.
Single Entry System.

Income and Expenditure and Receipts and Payments Accounts
Partnerships—Admission, retirement, death and dissolution of firms.

Company Accounts Accounting for share and loan capital.
Amalgamation, Absorption and Reconstruction of companies.
Reserves, Reserve funds and Sinking funds.
Royalties, Hire Purchase and Instalment Payment system.
Analysis of financial statements Liquidity, Profitability and activity.

Paper III : Auditing and Business Law :

Section 'A'—Auditing

Auditing—Nature—Objects and various classes of audit.

The Audit Process :

- (a) Internal check.
- (b) Audit Programme

Audit Procedure :—

- (a) Vouching
- (b) Verification of assets and liabilities.

Audit of Limited Companies :

- (a) Company Auditor—appointment, powers, duties and liabilities.
- (b) Audit of share capital and share transfer
- (c) Divisible profits and dividends

Section 'B'—Business Law

- Indian Contract Act (1872)
- The Sale of Goods Act (1930)
- Indian Partnership Act (1932)
- The Negotiable Instruments Act (1881)

56-60

B.A. (PASS) : MATHEMATICS

First Year

Paper I : Algebra and Calculus

Part A : Algebra

Section 1 :

Definition and examples of groups, subgroups, Normal subgroups, Cosets, Lagrange's Theorem, Definitions, examples and simple properties of rings. Commutative rings, Integral domains and fields. Subrings, ideals and their elementary properties.

Section 2 :

Definition and examples of a vector space, subspace and its properties, linear independence of vectors, basis and dimension of a vector space. Types of matrices, rank of a matrix, invariance of rank under elementary transformations. Reduction to normal form. Solutions of linear homogeneous and non-homogeneous equations with number of equations and unknowns upto four. Cayley-Hamilton theorem. Characteristic roots and vectors.

Section 3 :

De Moivre's theorem (both integral and rational index), summation of series, expansion for $\cos n\theta$, $\sin n\theta$ in terms of powers of $\sin \theta$, $\cos \theta$, and $\cos n\theta$, $\sin n\theta$ in terms of $\cos \theta$ and $\sin \theta$ multiples of θ . Solutions of equations using trigonometry. Relations between roots and coefficients of n^{th} degree equation. Solutions of cubic and biquadratic equations, when some condition on roots of

the equation is given. Symmetric functions of the roots for cubic and biquadratic equations. Transformation of equations.

Part B : Calculus

Section 1 : Limit and Continuity, Types of discontinuities, differentiability of functions. Successive differentiation, Leibnitz's theorem, Partial differentiation, Euler's theorem on homogeneous functions.

Section 2 : Tangents and normals, Curvature, Asymptotes, singular points, tracing of curves.

Section 3 : Reduction formulae, integration of irrational and trigonometric functions, properties of definite integrals. Quadrature, rectification of curves, volumes and surfaces of solids of revolution.

Second Year

Paper II : Geometry Vector Calculus and Differential Equations

Part A : Geometry

Section 1 : System of Circles. Equations of parabolas in standard form and its properties.

Section 2 : Equations of ellipse and hyperbola in standard forms and their properties. Classification and tracing of curves of second degree.

Section 3 : Sphere and its properties. Cones, Cylinders and their properties.

Part B Vector Calculus and Differential Equations

Section 1 :

Differentiation and Partial differentiation of a vector function. Derivative of Sum. Dot Product and Cross Product of two vectors. Gradient, Divergence and Curl.

Section 2 :

Linear differential equations. Homogenous and non homogenous equations. Separable equations. Exact equations. First Order higher degree equations solvable for x, y, p. Algebraic properties of solutions. Wronskian. Its properties and applications. Linear homogenous equations with constant coefficients. Solution of Second order differential equation by change of variables.

Section 3 :

Linear non-homogeneous equations. The method of variation of parameters. The method of undetermined coefficients. Euler's equation. Simultaneous differential equations. Total differential equations.

Third Year

Paper III

Paper A : Real Analysis

Section 1 :

The real number system as a complete ordered field. Neighbourhoods, open and closed sets. Limit points of sets. Bolzano Weierstrass theorem. Properties of continuous functions. Uniform continuity.

Section 2 :

Sequences, convergent sequences. Cauchy sequences. Limit superior and limit inferior of a sequence. Infinite series and their convergence. Positive term series. Comparison test, Cauchy's nth root test, D'Alembert's ratio test, Raabe's test, Cauchy's integral test, Alternating series, Leibnitz's test, Absolute and conditional convergence.

Section 3 :

Rolle's theorem, Mean Value Theorems, Taylor's Theorem with Lagrange's & Cauchy's forms of remainder. Taylor's series, Maclaurin's series of sin x, cos x, e^x, log (1 + x), (1 + x)^m. Applications of mean Value theorems to Monotonic functions and inequalities. Maxima & Minima. Indeterminate forms.

Paper III

Part B (i) : Mechanics

Section 1 :

Forces, couples, moments, Laws of friction, conditions of equilibrium of coplaner forces acting on a rigid body. Centre of parallel forces, centre of gravity, Principle of virtual work.

Section 2 :

Newton's Laws of motion. Motion along a straight line with uniform acceleration. Simple harmonic motion, Simple pendulum. Projectiles. Constrained motion in a circle. Work and energy.

Section 3 :

Pressure at a point. Resultant pressure on plane surface. Centre of pressure of plane surfaces.

Paper III

Part B (ii) : Statistics

Section 1 :

Various measures of dispersion. Minimal property of mean deviation. Root mean square deviation. Variance and Standard Deviation. Moments about mean, origin, and any point. Skewness and Kurtosis. Pearson's β and α coefficients. Mathematical and Statistical definitions of Probability. Theorems of Total and Compound Probability. Bayes Theorem. Discrete random variables and Probability Distributions. Mathematical Expectation. Expectation of sum and product of random variables. Moment Generating Function, cumulants, and their relations with moments.

Section 2 :

Derivations of Binomial and Poisson and distributions and their properties. Density function and distribution function of one random variable. Normal Distribution, its properties and uses.

Section 3 :

Method of least squares. Fitting of lines and parabolic curves. Bivariate frequency distributions. Limits for the product-moment correlation. Linear Regression. Equations of the lines of regression.

Randoms sampling random numbers. Sampling of attributes. Large sample tests for mean and proportion. Tests of significance based on t , F , and chi square distributions.

MATHEMATICAL STATISTICS

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 of at least one event. Geometrical probability, Bayes, theorem, Random variable, probability in continuum, Mathematical expectation and its laws Variance and covariance, Bivariate distributions. Marginal and conditional distributions. Easy problems related to all these topic.

Measures of location and dispersion. Moments Sheppard's correction (without proof) for moments upto fourth order. Comulants Measures of skewness and kurtosis, Elements of the theory of attributes. Association and Contingency. Correlation and linear regression for 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 formulae. Fixed and Chain base methods. Requirements of good index number. Construction of cost of living index and wholesales price indices of industrial production.

Paper : II—Probability Distribution. Numerical Mathematics. Vital and Educational 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 form of the Binomial and Poisson distributions Chebychev's Lemma. Weak law of large numbers. Central limit theorem

for identical variates. Multiple correlation and partial correlation for three variates only.

Finite difference and interpolation, Operators, Δ and E , Exponential, Divided differences, Newton's forward, backward and divided differences interpolation formulae Lagrange's interpolation formulae. Central difference. Interpolation formulae due to Gauss and Stirling. Numerical differentiation and integration. Trapezoidal rule. Simpson's one-third rule, three-eighths rule of quadrature. Summation by inverse differences Euler Maclaurins expansion (without proof), Numerical solutions of systems of linear equations. Vital Statistics—Birth and death rates, Standardised death rates Gross and Net reproduction rates. Elements of life table.

Statistics in Psychology and Education, Standard scores and normalised scores. Intelligence quotient.

Paper III—Statistical inference, Sampling Techniques, Design of Experiments and S.Q.C.

Concepts of sampling distributions and standard error Derivation of sampling distribution of (i) mean of random sample from normal population, (ii) sum of squares of standard normal deviates s of 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 and F . statistics for a single mean, difference of two means, single variance, equality of variances, regression coefficient of correlation.

Elements of the theory of estimation Requirements of a good estimator unbiasedness, consistency, efficiency and sufficiency. (definitions only). Maximum likelihood estimators and statement of their properties. Concept of confidence intervals.

Null and alternative hypotheses. Simple and composite hypothesis. Two types of errors. Concept of power function. Tests for a simple hypothesis against a simple alternative in the case of Binomial. Poisson and Normal distributions. Advantages of sampling. Forms and Schedules for enquiry. Sampling errors, Simple random sampling and stratified random sampling. Systematic, Multistage

and Double sampling. General principles of sample surveys to those conducted recently in India.

Analysis of variance. On-way classifications Basic Principles of design of experiments—randomized, replication and local control, completely randomized design. Randomized block design and Latin square design.

Advantages of statistical quality control, Construction use and interpretation of control charts for mean range, fraction defective and number of defects. Acceptance sampling. Single and Double sampling inspection plans. Concept of OQ, ASN, AOQ and AOC.

FACULTY OF MUSIC & FINE ARTS
UNIVERSITY OF DELHI

Syllabus for B.A. (Pass) Course in Hindustani Music

(Vocal & Sitar) for the students to be admitted in July 1992 onwards

Paper I—Theory

50 marks

Theory of Indian Music (General) & Biographies of Important Musicians, Composers and Musicologists.

There will be three sections. Candidates shall have to answer one question from each section, and two from any of the three sections.

SECTION—I

Study of the following Music terms.

- (A) Nad, Pitch-Timbre-Intensity, Shruti, Swar, Sapta, Vadi, Samvadi, Anuvadi, Vivadi, Gamak, Alankar, Tal, That, Rag and its Lakshnas, Gram, Murchhna.
- (B) Detailed study of the Ragas and Talas prescribed in 1st year.

SECTION—II

Biographies of Western and South Indian Musicians—Beethoven, Bach, Mozart, Thyagraja, Shyama Shastri, Puran—dara Das.

SECTION—III

Biographies of North Indian Musicians— Tansen, Amcer Khuro, Jaidev, Mansingh Tanwar, Maset Khan, Raza Khan Faiyas Khan, Abdul Karim Khan, Allauddin Khan.

Paper II—Practical I—

50 Marks

Ragas :— Allaiya Bilawal, Yaman, Bhairav, Vrindavani Sarang, Jeumpuri, Bhimpalasi.

Vocal :— (a) Vilambit Khyal in any two Ragas.

(b) One Dhrupad and one Dhamar in two different Ragas.

(c) Madhyalaya KHYAL in all the Ragas.

(d) Ability to recite the thekas of the following talas alongwith Tali and Khali— Teental, Jhaptaal, Ektaal, Choutal, Dhamar tal.

(e) The teaching and elementary knowledge of Tabla playing and also ability to play the thekas of Teental.

Instrumental :—

(a) Two Masitkhani Gats in any two Ragas.

(b) Razakhani Gats in all the Ragas.

(c) One Gat in any tala other than Teental.

(d) Ability to recite the thekas of the following talas alongwith Tali and khali.

(e) The teaching and elementary knowledge of the Tabla playing and also ability to play the thekas of Teental.

Books Recommended for new Proposed Syllabus of

B.A. (Pass) Part I Hindustani Music (N.S.)

1. Sangeet Ratnakar — Pt. Sharangdev
2. Great Composers (series) * P. Sambamoorthy
3. Music of India — H.A. Popley
4. Hamare Sangeet Ratna — Hathras (Hindi)
5. Gopal Krishna Bharti, Ghanam—Krishna Iyer, Vaidya Nath Iyer, and other Biographical sketches—U.V. Swaminath Iyer.
6. South Indian Musicians—P. Sambamoorthy
7. Selected Compositions available with teachers for Instrumental Music
8. Kramik Pustak Malika (1st 4 vols.) *— Pt. Bharkhande
9. Hindustani Sangeet Shashtra — Pt. Bharkhande (4 vols.)
10. Sangeet Samrat Tansen—Prabudayal Mittal
11. The Geet Govind Kavya of Jayadeva — S.L. Shastri
12. Story of Indian Music — O. Goswami
13. The Oxford Dictionary of Music — Kennedy
14. Introduction to Music — The Banner and Noble outline Series
15. The Larousse Encyclopedia of Music—Geoffrey Hindley
16. The New Oxford Companion to Music — Denis Arnold (Vol. A-J and K-Z).

New Proposed Syllabus for B.A. (Pass) Part II

Hindustani Music (N.S.)

Paper III—Theory

Ancient & Medieval History upto Sharangdev and study of Ragas and Talas of I & II Year.

There will be the Sections. Candidates shall have to answer two questions each from sections I and II and one question from section III. Thus five in all.

Note :—Writing of compositions in notation in compulsory.

SECTION—1

History of Indian Music—

1. Vedic Music, Samveda, Vedic Instruments.
2. Musical reference on found in Ramayana and Mahabharata.
3. Jati, Sarnachatushtayi, instruments treated in Natya Shashtra.
4. Murchhana and Ragas treated in Brihadeshi.
5. Swaran, Classification of Ragas, Marga-Deshi, Nibandha —Anibandha Gara, Akshiptika and Sahaya treated in Sangit Ratnakar.

SECTION—II

1. Detailed Study of the Ragas and Talas prescribed in I & II year.

SECTION—III

Writing of compositions in notation.—(Vilambit Khya, Dhrupad, Dhamar, Maseethani Gat, Razakhani Gat and Razakhani Gat other than Teental).

Paper IV—Practical II

50 Marks

Ragas—Bihag, Des, Malkaun, Bhupali, Hamir, Ramkali.

Vocal :—

- (a) Vilambit Khya in any two Ragas.

- (b) One Dhrupad and one Dhamar in two different Ragas.
- (c) Madhyalaya Khyal in all the Ragas.
- (d) Ability to recite the thekas of the following talas along with Tali and Khali :
Teental, Jhaptaal, Ektal, Chautal, Dhamar, Dadra, Kaharva, Tiliwada. 40 Marks
- (e) Elementary knowledge of the technique of Tabla playing, also ability to play the thekas of Teental, Chautal, and Ektal. 10 Marks

Instrumental :—

- (a) Three Masitkhani Gats in any three Ragas.
- (b) Razakhani Gats in all the Ragas.
- (c) Ability to recite the thekas of the following talas along with Tali and Khali—Teental, Jhaptaal, Ektal, Chautal, Dhamar, Kaharva, Tiliwada.
- (d) One Gat in any tala other than Teental 40 Marks
- (e) Elementary knowledge of the technique of Tabla playing, also ability to play the thekas of Teental, Ektal, and Chautal. 10 Marks

Books Recommended for New Proposed Syllabus of B.A. (Pass) Part II Hindustani Music (N.S.)

1. Bhartiya Sangeet Ka Itihas—Sharat Chandra Paranjipo
2. Brihaddehi—Matanga Muni
3. Sangeet Ratnakara—Pt. Sharangdeva
4. Natya Shastra—Bharat Muni
5. Hindustani Sangeet Paddhati—Bhatkhand (4 vols.)
6. Kramik Pustak Malika—Bhatkhande
7. Selected compositions available with teachers for Instrumental Music.
8. Other Hindi/English books suggested by teachers.

New Proposed Syllabus of or B.A. (Pass) Part III

Paper V—Theory

Theory of Indian Music (General and Applied—History of Indian Music from the post Sharangdeva period to Modern Times. 50 Marks)

There will be three Sections. Candidates shall have to answer one question each from Sections I, II and III and two questions from any of the sections.

SECTION—I

- (a) General discussion and definition of the following :—
Zamzama, Ghaseet, Soot, Kritan, Alap--Jor—Jhala, Equal Temperament, Just Intonation, Major-minor-Semi Tone, Dhrupad, Dhamar, Khyal, Thumri, Dadra, Tarana and Tappa.
- (b) Detailed Study of the Ragas of III year and Comparative study of the Ragas prescribed in I, II and III year.
- (c) Writing of Talas and compositions in notation

SECTION—II

Swaras, scale and Melas in Swaramelakanidhi, Sangeet Parijat, Chaturdandi Prakashika, Rag-Tarangini, Faquir Ullah's Rag-Darpan.

SECTION—III

Life and contributions of the following Musicologists to the History of Music :
Captain Williard, S.M. Tagore, K.D. Banerjee, Pt. Bhatkhande and Pt. V.D. Paluskar.

Paper VI—Practical III

50 Marks
Ragas—Kedar, Puriya Dhanashri, Jaijairani, Bageshree, Kafi Todi.

Vocal—

- (a) Vilambit Khayal in any two Ragas
- (b) One Dhrupad one Dhamar in two different Ragas.
- (c) Madhyalaya Khayals in all the Ragas.
- (d) Ability to recite the thekas of the following Talas along with Tali and Khali :
Tental, Jhaptaal, Ektal, Choutal, Dhamaral, Dadra, Kharva, Tilwada, Roopak. 40 Marks
- (e) Ability to play the thekas of the following Talas on the Tabla—Tental, Ektal, Choutal, Dhamaral, Jhaptaal. 10 Marks

Instrumental—

- (a) Three Masitkhani Gats in any three Ragas.
- (b) Razakhani Gats in all the Ragas,
- (c) One Gats in any tala other than Tental.
- (d) Ability to recite the thekas of the following Talas along with Tali and Khali :
Tental, Jhaptaal, Ektal, Choutal, Dhamar, Dadra, Kaharva, Tilwada, Roopak. 40 Marks
- (e) Ability to play the thekas of the following talas on the Tabla, Tental, Ektal, Choutal, Dhamaral, Jhaptaal. 10 marks

Books Recommended for New Proposed Syllabus of**B.A. (Pass) III Year**

1. A comparative Study of some of the leading musicians system of 15th, 16th, 17th and 18th Centuries—Bhatkhande
2. Swaramela Kalamidhi—Pt. Ramamaya
3. Sangeet Parijat—Pt. Ahobala
4. Chaturdandi Prakashika—Pt. Vyankramakhi
5. Raga Tarangini—Pt. Lochan
6. Raga Darpan—Faquinnullah
7. Kramik Pustak Malika (6 vols.)—Pt. Bhatkhande

8. Hindustani Sangeet Paddhati (Ist 4 vols.)—Pt. Bhatkhande
9. Selected compositions available with the teachers for Instrumental Music.
10. Books recommended in B.A. (Pass) I and II year syllabus
11. Books suggested by the teachers for general Musicology.
12. Pt. Vishnu Narayan Bhatkhande—S.N. Ratanjankar
13. Pt. Vishnu Digamber—V.R. Athavale
14. Gcet Sutra Sara—K.D. Banerjee
15. Universal History of Music—S.M. Tagore
16. Music from Various Authors—S.M. Tagore

B.A. (Pass) Education**NEW SYLLABUS : PAPER—I : THEORETICAL BASIS OF EDUCATION**

1. Education - Its meaning, Definition and Scope
2. Bases of Education—Philosophical, Sociological, Psychological and Historical.
3. (i) Bases for the formation of Aims of Education.
(ii) Aims of Education with Special Reference to India.
4. (i) Education as a sub-system of Society
(ii) Inter-relationship between Education and Society (education as an agent of transmission of culture and transformation of society), with special reference to Social, Political, Economic, Religious, Cultural, Scientific and Technological factors, Social conflict and Role of Education therein
5. Types of Education :
(i) Basic General, Specialised and Vocational Education.
(ii) Formal and alternative modes of education, including non-formal, continuing, distance and informal education.

6. Indian Youth and their preparation for Life Activities, Role of Education therein.
7. (a) Education and Social Institutions (home, school and media etc.)
(b) Education and Literacy (latest statistical data).
(c) Education and Modernisation : Changing Value.
(d) Education and Equity.

Bibliography, Paper I.B.A. (Pass)

1. Gandhi M.K.
Trade Education
Ahmedabad. Navajivan Publishing House, 1962.
2. Kabir H.
Indian Philosophy of Education
Asia Publishing House, 1961.
3. NCERT, Salanutallah. S.
Education in the Social Context, 1979.
4. NCERT,
The Teacher and Education in Emerging Indian Society,
Delhi, 1983.
5. Nunn Percy,
Education its Data and First Principles, London, Edward
Arnold and Co., 1937 (Reprint 1963).
6. Ottaway A.K.,
Education and Society
London, R.K.P., 1953.
7. Ramanathan, G.
Education from Dewey to Gandhi,
Bombay, Asia Publishing House, 1962.
8. Rayment, T.,
Modern Education, Its Aims and Method,
London, Longmans, Green & Co, 1953
(New impression 1960).
9. Ross, James S.
Groundwork of Education Theory,
London, George G. Harrap & Co. Ltd., 1955.

10. Saividian K.G.
The Faith of an Educationist
Bombay, Asia Publishing House 1965.
11. Tagore R.,
Education,
Delhi, Macmillan of India, 1972.
12. Varma M.
The Philosophy of Indian Education,
Meerut. Meenakshi, 1969.
1. अटवे ए० के० सी० : शिक्षा और समाज : अनु ब्रजभूषण शर्मा,
लखनऊ, उत्तर प्रदेश १९७२
2. मथानो, थार० पी० : विश्व सद्भावना के लिए शिक्षा । वाराणसी
नन्द किशोर १९५२
3. रूहेला, सत्यपाल : भारतीय शिक्षा का समाजशास्त्र, जयपुर, राजस्थान
हिन्दी ग्रन्थ अकादमी, १९७२
4. रूहेला, सत्यपाल : हिन्दी का समाजशास्त्र मूल संप्रत्यय और सिद्धान्त :
लखनऊ उत्तर प्रदेश हिन्दी ग्रन्थ अकादमी, १९७२
5. अदावल, सुबोध और अश्वनाथ, कन्नैयालाल : - शिक्षा के सिद्धान्त, दिल्ली
संकिस्लिन, १९७८
6. चौधरी, रामखिलावन, शिक्षा के मूर धार, १९६८
7. चौबे, सरयू प्रसाद, शिक्षा के अंधाधार, मेरठ, मीनाक्षी प्रकाशन, १९७६
8. दूबे रमाकांत, विश्व के कुछ महान शिक्षा शास्त्री, दिल्ली मीनाक्षी
प्रकाशन, १९८०
9. ओम, एल० के० : शिक्षा को समाजशास्त्रीय और दार्शनिक पीठिका
नई दिल्ली संकिस्लिन, १९७६
10. प्रेमनाथ, शिक्षा के सिद्धान्त : दार्शनिक एवं सामाजिक, इलाहाबाद,
लोकशास्त्री प्रकाशन, १९६८
11. रमन बिहारी लाल : शिक्षा के दार्शनिक और समाजशास्त्रीय सिद्धान्त
मेरठ रस्तोगी पब्लिकेशनस, १९७६
12. सेठ, कीर्ति देवी, भारतीय शिक्षा दार्शनिक, इलाहाबाद, वैदिक प्रकाशन
१९६०

13. रेमण्ड, दो शिक्षा सिद्धान्त : शत्रु० देवनारायण मुकर्जी, दिल्ली, ओरिएण्टल लायर्स, १९५०
14. नन, पर्गी शिक्षा : उसकी सामग्री और प्रथम सिद्धान्त (शत्रु० डा० चरण दास शास्त्री एवं श्री युगल किशोर) दिल्ली, शिक्षा मंत्रालय (भारत सरकार) १९६६
15. सैयदेन, के० जी० : भारतीय शैक्षणिक विचारधारा, नई दिल्ली, मीनाक्षी प्रकाशन, १९७५

PAPER—II

ROLE AND FUNCTION OF EDUCATION

Role of Education in development of self and development of society.

I. Development of Self :

Learning, its elements, factors affecting it. Learning and Maturation. Knowledge and intellectual skills. Development of emotions, motivation and needs. Behaviour and won habits. Individual differences : as determined by heredity and environment. Cognitive, Affective and Conative aspect of personality. Education and mental health and adjustment.

II. Development of Society :

Education in the society context. Education and equalisation of opportunities (Education of minorities and disadvantaged groups. Education for socialization. Education for freedom and democracy. Education for modernization and mobility. Education as human resource development...—agriculture sector, industry sector ; welfare and managerial services. Education as investment, consumption, and welfare activity. Education and employment job oriented education. Education for citizenship and internationalism.

I. Development of Self :

1. Biggs, M.L. Psychological Foundations of Education New York, Harpes and Row, 1980.
2. Bhavia, M.R. Elements of Educational Psychology. Delhi Orient Longmans 1964.
3. Crow and Crow, Educational Psychology, New York, American Book Co., 1963.
4. Hol, J., How Children Learn., U.K. Penguin, 1965.
5. Jalota, S., Educational Psychology, Benaras, 1951.
6. Lovell, K., Educational Psychology of Children, London, University of London Press, 1973.
7. Peal. E.A. Psychological Basis of Education, Oliver and Boyd, 1956.
8. Sekhar, S. and adhishesiah, WTV. Psychological Foundations of Education, Coimbatore, Student Service Centre, 1978.
9. दुबे, इन्दु : शिक्षा का मनोवैज्ञानिक आधार, हिन्दी ग्रन्थ अकादमी, १९७०
10. भटनागर, सुरेश : शिक्षा मनोविज्ञान, मेरठ, लायल बुक डिपो, १९७५
11. भटनागर, सुरेश : शिक्षण अधिगम एवम् विकार का मनोविज्ञान, मेरठ लायल बुक डिपो, १९७६
12. शैरी, जी० पी० तथा महरोजा आर० एस० : शैक्षिक मनोविज्ञान, आगरा प्रताप प्रकाशन, १९६१
13. तिवारी, सत्यवत : शिक्षा मनोविज्ञान के आधार, विश्वविद्यालय प्रकाशन १९७७
14. केन्द्रीय हिन्दी निर्देशालय : संखना—एक वैज्ञानिक विवेचन, दिल्ली, भारत सरकार, १९७६
15. जायसवाल, डा० सीताराम : शिक्षा मनोविज्ञान दीर्घिका, दिल्ली विद्या प्रकाशन मन्दिर्, १९६५
16. माथुर, एस० एस० : शिक्षा मनोविज्ञान, आगरा, विनोद पुस्तक मन्दिर्,
17. को एवं को : शिक्षा मनोविज्ञान, नई दिल्ली, यूरोनियम, १९६३

II. *Development of Society :*

1. Biswas, A., Dutt, S. and Singhal, R.P., *The New Educational pattern in India*, Delhi, Vikas Publishing House, 1976.
2. Faure, E., *et. al.* (Ed.) *Learning to be*, UNESCO, Delhi, Sterling, 1975.
3. Gore M.S. Desai I.P. and Chinnis, S. *papers in the Sociology of Education*, New Delhi, NCERT, 1967.
4. Krishnamurthy, J. *Education and the significance of Life*, London, 1968.
5. Nunn' P. *Education*, London, 1970.
6. Russell, B. *Education and the Social Order*, London, Unwin Books, 1976.
7. Safaya, R. and Shaida, B.D., *Educational Theory and Practice*, Jullunder, 1968.
8. Saiyidian K.G. *Education, Culture and the Social Order*, Delhi, Asia Publishing House, 1963.
9. Salamattullah, S. *Education in the Social Context* Delhi, NCERT, 1979.
10. Shukla, P.D. *Towards the New Pattern of Education*, Delhi, Sterling Publishers, 1976.
11. Sodhi, T.S., *Education and Economic Development*, Ludhiana, 1978.
12. Whighead, A.N. *The Aims of Education*, Nagpur, Dattasons, 1965.

PAPER—III

EDUCATION IN INDIA

1. Ancient and Medieval Systems of Education—
 - (a) Vedic Period.
 - (b) Buddhist Period.
 - (c) Islamic Period.
 (with reference to the aims, ideals, structures, content and method).

2. *Indigenous Education & Swadeshi Movement in Education in India.*
(Gurukul, Jamia Millia, Shantiketan, Vidyapeeth, Buniadi Siksha).
3. *Significant Features of Educational Development from 1813 to 1947 :*
Charter Act 1813—Governmental Responsibility for Education.
Macanley's Minute—English Education.
Woods Despatch—Mass Education.
Hunter Commission—Decentralization.
Curzen's Reforms—Quality and Controls.
Wood—Abbot Report—Technical Education.
Education under Federation—Experiments in Education.
4. *Development of Education after independence :*
(i) Primary, (ii) Secondary and (iii) Higher-Academic and Professional
5. *Organization, Administration and Control of Education; Role of Central, State and Local Governments.*

Bibliography-Paper (B.A. Pass)

1. Achyuthah M. *Educational practices in Manu*, Parini, Kautliya, Trivandrum College, Book House, 1974.
2. Airan, J.W. *Educational Reforms of India*, Ajmer Publications, 1979.
3. Altekar, A.N. *Education in Ancient India*. Varanasi.
4. Basu A. *Growth of Education and Political development in India*. 1898-1920, Delhi, Oxford University Press 1974.
5. Basu, A. *Essays in the History of Indian Education*, New Delhi, Concept Publishers, 1982.
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7. Biswas, A. and others, *New Educational pattern in India*, Delhi, Vikas Publishing House, 1976.
8. Charterjee, C. *Vedantic Education*, Lucknow, 1957.
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10. Das S.K. *Concept of Basic Education*, New Delhi, Ministry of Education, 1957.
11. Daya Krishna and others, *Indian Education Today, Prospects and Perspectives*. Jaipur, Rajasthan University Press, 1970.
12. Dharampal. *The Beautiful Tree*, New Delhi: Biblia Impex Pvt. Ltd. 1983.
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14. Gandhi, M.K. *Basic Education*. Ahmedabad, Navajivan Publishing House 1951.
15. Garg, B.R. *Education for tomorrow*. Ambala, International Book Agency, 1979.
16. Keay, F.E. *Ancient Indian Education an Inquiry into its origina and development and ideals*, New Delhi, Cosmo Publishers, 1980 (Reprint).
17. Law, L.N. *Promotion of Learning in India*, Delhi, Idarahi, 1973.
18. Mohanty, *Indian Education in the emerging Society*. New Delhi, Sterling Publications, 1982.
19. Mukherjee, S.N. *administration of Education : Planning and Finance Baroda*, Acharya Book Depot, 1969.
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21. Rawat, P.G. *History of Education*, Agra, Bharat Publications 1955.
22. Saini, S.K. *Development of Education in India: Socio-economic and political perspectives*, Cosmo Publications, 1980.

23. Srivastava, B.D. *Development of Modern Indian Education*, 1955.
24. Srivastava, R.C. *College administration*, Delhi, Metropolitan, 1980.
25. Verma, J.B. and Bhatnagar R.F. *Educational Administration*, Meerut, Loyol Book Depot, 1978.
26. उस्तावत सुबोध एवं उनीयाल माधवेन, भारतीय शिक्षा की समस्याएँ तथा प्रवृत्तियाँ लखनऊ, उत्तर प्रदेश हिन्दी ग्रन्थ अकादमी, १९७४ ।
27. अग्रवाल, जे० सी०, स्वतन्त्र भारत में शिक्षा का विकास, दिल्ली, आर्य बुक डिपो, १९६२ ।
28. अग्निहोत्री, रविन्द्र : भारतीय शिक्षा की वर्तमान समस्याएँ । दिल्ली रिसेर्च प्रलिकेशन इन स्पेशल सुपरवेज ।
29. चौधे सरयू प्रसाद : आदि और मध्ययुगीन भारत में शिक्षा १९७४
30. गान्धी, मोहन दास कर चन्द्रम : सच्ची शिक्षा, रामनारायण चौधरी द्वारा अनुवादित बलाहाबाद, नवजीवन प्रकाशन, १९५०
31. गुरुकुल कीर्तनी : विश्वविद्यालय गुरुकुल कीर्तनी के 60 वर्ष लेखक
32. नरुत्ताह, मै० एवं नायक जे० पी० : भारतीय शिक्षा का इतिहास, नई दिल्ली, मैकमिलन कम्पनी, १९७५
33. विवारी प० भारतीय शिक्षा का इतिहास, लखनऊ प्रकाशन केन्द्र १९७६

PHYSICAL EDUCATION

Paper I : (A) (i) History and Principals of Physical Education and Yoga Asanas. 50 marks

- (i) Definition, Physical Education and its relationship with other Sciences.
- (ii) Aims and objectives of Physical Education.
- (iii) Physical Development. Neuro-Muscular Development and Social Development.

(iv) Development of Physical Education in India, U.K. U.S.A., U.S.S.R. and Germany.

(ii) Yoga Asanas (without Mantras)

(i) Pawanmuktasana Bone joint exercise-Leg joints exercise, Hand joint exercise in Vajrasan. Neck & eyes exercises; exercises.

(ii) Surya Namaskara

(iii) Shashank Asana (rabbit pose)

(iv) Uthtarsana (camel pose)

(v) Paschimottanasana

(vi) Chakrasana

(vii) Bhujangasana & Dhanurasana

(viii) Ardha Machindra Asana

(ix) Gomukhanasana

(x) Sarvangasana-Halasana.

(xi) Matsyasan.

(xii) Shavasana.

(iii) *Pranayam in Padmasana* :

Ujjai : nadi shodhan, Bhastrika, Sheetoli, Bhramari

(B) Practical

50 marks

1. Athletics : One event each to be chosen by every candidate in Track and Field athletics. 15 marks

2. One specialised activity (excluding A above of the candidates own choice) 15 marks

3. Yoga : Compulsory

20 marks

Paper II (A) Human/anatomy Physiology and elementary practice of sports medicine. 50 marks

(i) Human anatomy : Musculo-skeletal system-structure of Muscles bone joints-Respiratory, Circulatory, gastro-intestinal excretory and nervous systems.

(ii) Human Physiology : Functions of musculoskeletal systems, Respiratory system, Circulatory systems, Digestive system and excretory system. Effects of exercises on the different systems, Muscular fatigue, vital capacity, oxygen debt, second wind.

(iii) Elementary Practice of Sports Medicine :

(a) Injuries and treatment: sprains, strains, Contusion. Abrasion & Haemorrhage.

(b) Massage : Advantages and disadvantages.

(B) Practical :

50 marks

(a) Athletics : One event, each to be chosen by every candidate from Track and field athletics. 20 marks

(b) Games : One Game to be chosen by every candidate out of the following and one specialised game of candidate's own choice to continue throughout : 30 marks

(i) Hockey : Fundamentals, tactics and Laws

(ii) Football : Fundamentals, tactics and Laws.

(iii) Kho Kho : Fundamentals, tactics and Laws.

- (iv) Lawn Tennis/Table-Tennis/Badminton Squash.

Racket : Fundamentals, Tactics and Laws.

Paper III : (A) Health Education

50 marks

- (i) Definition Physical, mental and social health. The role of the different agencies in promoting individual community health.
- (ii) Balanced diet and nutrition. Adverse effects of tobacco, alcohol and intoxicating drugs.
Importance of air and water and dangers of pollution.
- (iii) Personal hygiene, prevention of communicable disease.
- (iv) Posture : common defects, their causes and remedies.
Leisure and recreation : its need and importance modes of recreation.

Sports Psychology : Definition, importances of Psychology in Physical Education, development of personality, habits and behaviours, learning and inotivation. fatigue and relaxation urges

(B) Practicals :

50 marks

- (i) Athletic : Two events—one each to be chosen by every candidate in Athletic from Track and field Athletics.

20 marks

- (ii) Gams : One game each to be chosen by every candidate out of the following :

- (a) Cricket : Fundamentals, tactics and laws.
- (b) Basketball/Volleyball : Fundamentals tactics and laws.
- (c) Wrestling : Fundamentals, tactics and laws.
- (d) Swimming/Waterpolo/Diving Fundamentals, tactics and laws.