

प्रश्न पत्र – III राजनीतिक संस्थाएँ और प्रशासन

खण्ड-अ

राज्य : प्रकृति एवं अवधारणा, अहस्तक्षेपवादी राज्य, कल्याणकारी राज्य, समाजवादी राज्य, प्रशासनिक राज्य।

शासन के प्रारूप : लोकतंत्र तथा तानाशाही, एकात्मक, संघात्मक, संसदीय और अध्यक्षतात्मक शासन व्यवस्थाएँ।

सरकार का संगठन : व्यवस्थापिका और इसकी आधुनिक शासन में भूमिका, सुशासन के तत्व।

खण्ड-ब

व्यवस्थापिका का ह्रास, कार्यपालिका – इसकी वृद्धि का महत्व, विधि का शासन, संरचना, कार्य और सर्वोच्च न्यायालय की भूमिका, उच्च न्यायालय, न्यायिक पुनरावलोकन, न्यायिक सक्रियता।

खण्ड-स

नौकरशाही प्रशासन के प्रमुख लक्षण – लोक सेवाओं की प्रतिबद्धता एवं तटस्थता।

अन्तर्राष्ट्रीय संगठन : संयुक्त राष्ट्र-आम सभा, सुरक्षा परिषद्, महासचिव कार्यालय, वृद्धि और अन्तर्राष्ट्रीय लोक सेवा संगठन की भूमिका : सार्क एवं साफ्टा

अनुशसित पुस्तकें :

1. Ernest B. Schuiz : Essential of Government
2. Saint : Political Institution - A Preface
3. M.G. Gupta : Modern Government
4. जियाउद्दीन खाँ एवं अंतर सिंह : प्रशासनिक संस्थाएँ
5. एच.सी. शर्मा : प्रशासनिक संस्थाएँ
6. बी.एल. फडिया : प्रशासनिक संस्थाएँ

(16)

Paper - IV : Economic Administration in India

Section - A

Indian Economy : Basic features and main problems of Indian Economy with special reference to over Population, pressure, Unemployment and poverty. Genesis of planning in India. The planning machinery at the National Level. Planning Commission and NDC. The Planning Process-formulation of plan. Issues relating to implementation of plans.

New Eco Policy : Achievement and failures of Five Year Plans. Development of Industrial Policy in India, Industrial Policy 1991, Leberalization, Globalization and Privatization (LPG).

Section - B

Development of Heavy, Small and Cottage industries in India. Agricultural Administration. Problems of Land Reforms. Agricultural Development. Impact of green revolution.

Banking and resources mobilization in India. Indian Banking system, Organization and Role of RBI, NABARD

Section - C

Fiscal Policy and Tax Administration : Deficit financing, Budgetary Process in India. Types of Budget : Performance Budgeting and Zero-base Budgeting, Role of Finance Commission. Economic Advisory Council. Disinvestment, security Exchange Board of India (SEBI).

Recommended Books :

1. Laxmi Narain : Public Enterprises in India
2. Alak Ghosh : Indian Economy
3. लक्ष्मीनारायण नाथूरामका : आर्थिक अवधारणाएँ एवं विधियाँ
4. आर.एन. दुबे एवं वी.सी. सिन्हा : आर्थिक विकास एवं नियोजन
5. नीलिमा देशमुख : आर्थिक नीति एवं प्रशासन
6. वी.एल. माथुर : आर्थिक नीति एवं प्रशासन

171

प्रश्न पत्र - IV भारत में आर्थिक प्रशासन

खण्ड-अ

भारतीय अर्थव्यवस्था : भारतीय अर्थव्यवस्था की प्रमुख विशेषताएँ एवं प्रमुख समस्याएँ - जनसंख्या दबाव, बेरोजगारी एवं गरीबी के विशेष संदर्भ में। भारत में नियोजन की उत्पत्ति। राष्ट्रीय स्तर पर नियोजन तंत्र, योजना आयोग तथा राष्ट्रीय विकास परिषद्। नियोजन प्रक्रिया - नियोजन निर्माण, नियोजन क्रियान्वयन से सम्बन्धित मुद्दे।

नयी आर्थिक नीति, पंचवर्षीय योजनाओं की उपलब्धियाँ एवं अफसलताएँ, भारत में औद्योगिक नीति का विकास, औद्योगिक नीति 1991, उदारीकरण, वैश्वीकरण एवं निजीकरण।

खण्ड-ब

भारत में भारी, लघु एवं कुटीर उद्योगों का विकास, कृषि प्रशासन, भूमि सुधार की समस्याएँ, कृषि विकास, हरित क्रांति का प्रभाव, भारत में बैंकिंग एवं संसाधन गत्यात्मकता, भारतीय बैंकिंग व्यवस्था, संगठन और रिजर्व बैंक ऑफ इण्डिया एण्ड नाबार्ड की भूमिका।

खण्ड-स

मौद्रिक नीति एवं कर प्रशासन : हीनार्थ वित्त, भारत में बजट प्रक्रिया, बजट के प्रकार : निष्पादन बजट तथा जीरो बेस बजट, वित्त आयोग की भूमिका, आर्थिक सलाहकार परिषद्, विनिवेश, भारतीय प्रतिभूति और विनिमय बोर्ड (सेबी)

अनुशासित पुस्तकें :

1. Laxmi Narain : Public Enterprises in India
2. Alak Ghosh : Indian Economy
3. लक्ष्मीनारायण नाथूरामका : आर्थिक अवधारणाएँ एवं विधियाँ
4. आर.एन. दुबे एवं वी.सी. सिन्हा : आर्थिक विकास एवं नियोजन
5. नीलिमा देशमुख : आर्थिक नीति एवं प्रशासन
6. बी.एल. माथुर : आर्थिक नीति एवं प्रशासन



Scheme:

B.A. (HONS.) ECONOMICS

60 • University of Rajasthan

PAPER I: Micro Economic Theory

Paper-II: Mathematical and Methods for Economics

Paper-III: History of Economic Thought

Paper-IV: Economy of Rajasthan

Note: This paper will have 3 questions from each section. In addition to these nine questions (3 questions from each section) there shall be one multiple choice/objective type question. This question shall be compulsory.

A candidate will be required to attempt five questions in all selecting atleast one question from each section and one compulsory multiple choice/objective type question. Each question will carry 20 marks.

The multiple choice/objective type question will consist of 20 questions of one mark each.

Paper I: Micro Economic Theory

Duration: 3 hrs.

Max. Marks: 100

Section 'A'

Approaches to Economic Analysis: Micro Economics and Macro Economics: Static, Dynamic and comparative static analysis.

Theory of Consumer Behaviour: Utility analysis and indifference curve analysis. Consumer's equilibrium. Price effect, substitution effect and income effect. Normal, inferior and Giffen goods. Price consumption curve and derivation of demand curve. Income consumption curve and derivation of Engel curve.

Elasticities of demand: Price, Income and cross price elasticities of demand, Arc and point elasticity. Relationship between elasticity, average revenue, marginal revenue and total revenue. Factors affecting price elasticity of demand, Substitute and Complementary goods.

Section 'B'

Production function: Law of variable proportion. Three stages of production. Isoquant and iso-cost. Optimum factor combination. Laws of returns and returns to scale. Theory of Cost: Short-run and long-run cost curves. Optimum scale of plant and optimum rate of output.

Different market structure:

- (i) **Perfect competition:** Determination of price and output of a firm and industry in the short-run and long-run.
- (ii) **Monopoly:** Determination of price and output in the short run

B.A. (HONS.) Part - I

Syllabus: B.A. Hons. Part-I • 61

and long run. Discriminating monopolist. Welfare effects of monopoly. Regulation of monopoly.

(iii) **Monopolistic Competition:** Short run and long run equilibrium of the firm. Excess capacity.

(iv) **Oligopoly:** Determination of price and output cartels. Price leadership and Kink demand curve models.

Section 'C'

Marginal productivity theory of distribution. Factor pricing under perfect and imperfect labour market conditions. Ricardian theory of rent. Modern theory of rent and quasirent. Loanable and liquidity-preference theories of interest Risk and uncertainty theory of profit.

Books Recommended:

1. J.P. Gould and C.E. Ferguson, **Macro Economic Theory**, All India Traveller Book Seller, New Delhi.
2. H.L. Ahuja, **Advanced Economic Theory**, S. Chand and Company, New Delhi.
3. H.L. Ahuja, **Uchttar Arthik Sidhant**, S. Chand and Company, New Delhi.

Books for Reference:

1. Richard A. Bilas: **Macro Economic Theory**, McGraw Hill Books Company, Tokyo.
2. Richard A. Bilas, **Vyashti Artshastra**.
3. Salvatora, **Macro Economic Theory**, Sahaum's Outline Series.

Scheme:

Paper-I: Micro Economic Theory

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The multiple choice/objective type question will consist of 20 questions of one mark each.

Paper II: Mathematical Methods for Economics

Duration: 3 hrs

Max. Marks: 100

Section 'A'

Functions and curves in economics—straight line, parabola, hyperbola and exponential functions—Logarithms Surds and Indices, quadratic equations.

Section 'B'

Arithmetic, geometric and harmonic progressions, Binomial Theorem, Matrix and Determinants. Matrix multiplication and inverse of matrix, solution of simultaneous equations—Cramer's rule.

Section 'C'

Simple differentiation. Partial differentiation involving two independent variables. Maxima, minima and point of inflexion. Simple uses of calculus in Economics. Simple integration involving one independent variable.

Books Recommended :

1. B.C Mehta and G.M.K. Mahani, **Mathematics for Economics**, Sultan Chand and Sons, New Delhi.
2. L.N. Nathuramka, **Arthshastra me Ganit ke Prayog** (Hindi), College Book House, Jaipur.
3. Alpha C. Chiang, **Fundamental Methods of Mathematical Economics**, McGraw Hill, Tokyo.
4. Dewling, **Mathematics for Economists**, Schaum's outline series McGraw Hill Book, Company, New Delhi.

Scheme :

Paper-I	: Micro Economic Theory
Paper-II	: Mathematical and Methods for Economics
Paper-III	: History of Economic Thought
Paper-IV	: Economy of Rajasthan

Note : This paper will have 3 questions from each section. In addition to these nine questions (3 questions from each section) there shall be one multiple choice/objective type question. This question shall be compulsory.

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The multiple choice/objective type question will consist of 20 questions of one mark each.

Paper III : History of Economic Thought

Duration : 3 hrs.

Max. Marks : 100

Section 'A'

Indian Economic Thought Main ideas of Kautily and Mahatma Gandhi. The Classical School. Adam Smith, Malthus and Ricardo. The critics of classical school—Sismondi, List and the Nationalism School.

Section 'B'

Restatement of classical position by J.S. Mill, Utopians Socialists—Robert Owen, Saint Simon, Louis Blanc Proudhon, Fourier and Roberts. Scientific Socialism and Karl Marx.

Section 'C'

The Historical School. The Mathematical School. The Austrian School and the development of Marginalism. The neo-classical school—Marshall, Cambridge School, Pigou and Keynes.

Books Recommended :

1. Alexander Gray, **Development of Economic Doctrine**.
2. L.H. Henry, **History of Economic Thought**.
3. V.C. Sinha, **Arthik Vichar Ka Itihās**.

Scheme :

Paper-I	: Micro Economic Theory
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A candidate will be required to attempt five questions in all selecting atleast one question from each section and one compulsory multiple choice/objective type question. Each question will carry 20 marks.

The multiple choice/objective type question will consist of 20 questions of one mark each.

Paper- IV: Indian Economy

Unit-A


Basic Characteristics of Indian Economy low levels of living, low levels of productivity, high rate of population growth and dependency burden, high and rising levels of unemployment and underemployment, substantial dependence on agricultural production and primary product exports; Indian economy in transition.

National Income: trends and structural transformation during plan period, sectoral composition of real GDP compositional shift in favour of services, trends in share of public sector, share of organized and unorganized sector, inter-regional variation of national income.

Population: demographic trends in India- growth rate, birth rate and death rate, occupational distribution of population, human resource development indicators (i.e. literacy, health, nutrition etc.), family planning/ family welfare programmes, possible pathways to a faster decline in fertility- urbanization, literacy, status of women in society (experience of Kerala and Tamil Nadu) , national population policy

Agriculture: importance of agriculture in Indian economy, linkage between agriculture and other sectors; productivity in Indian agriculture, composition of agriculture sector, changes in cropping pattern, prime movers of growth-new technology, irrigation and fertilizers, institutional factor-land reforms, agricultural credit, agricultural research and extension, marketing of agricultural products: use of new technology and green revolution- first and second phase, agricultural price policy, capital formation in Indian agriculture, performance of agriculture during plan period, emerging trends and impact of globalization.

61


DEPARTMENT OF ECONOMICS
UNIVERSITY OF JALPAIGURI
JALPAIGURI

Unit -B

Industry: extent and pattern of industrialization during plan period, industrial policy resolution of 1956, liberalization after 90's- changes in industrial licensing, location policy, foreign investment, foreign technology, role of public sector, MRTP, foreign direct investment, image and attitude, building of world class infrastructure, changes in labour laws; public sector in Indian economy- rational, role and performance, disinvestment and privatization of public sector enterprises; small scale industrialization, new small enterprise policy, performance of small scale industries, sickness in SSI sector.

Foreign Sector: size, composition and direction of India's exports and imports; structural changes in India's exports- changes in commodity composition, move towards value-addition, moving away from traditional exports towards new manufactured products; causes and measures to correct unfavourable balance of trade; foreign trade policy, trends in India's balance of payments; capital account of BOP, external debt, foreign exchange reserve and exchange rate management; foreign direct investment in India-policy trend and impact; globalization and Indian economy; WTO and India.


Unemployment and Poverty: concepts and measurement of unemployment, strategies and policies for employment generation; magnitude and determinates of poverty in India, state level poverty ratios, anti-poverty programmes, role of MNAREGA.

Unit -C

Planning in India: objectives of planning, pattern of plan financing, development strategy, review of economic progress under the plans, a comprehensive study of 12th five year plan.

Inflation and Fiscal Policy: trends in wholesale prices, inflation based on CPI(IW), movement of agricultural prices vis-à-vis manufactured prices, anti-inflationary measures; fiscal reforms in India- tax reform and expenditure management, FRBM Act, fiscal deficit and worsening state finances.


(62)


HEAD
DEPARTMENT OF ECONOMICS
COBAN

development (literacy, health & nutrition); per capita income, agriculture, industry and infrastructure, natural resources: land, water, livestock and minerals; constraints in economic development of Rajasthan and measures to overcome them.

Books and References :

1. ~~Rudra~~ Rudra Dutta and K.P.M. Sundaram: Indian Economy (Hindi & English), S. Chand, New Delhi, Latest Edition.
2. S.K. Misra and V.K. Puri: Indian Economy, Himalaya Publishing House, New Delhi, Latest Edition
3. Kapila, ~~Uma~~^{Uma}, Understanding of Problems of Indian Economy, Academic Foudation, New Delhi, Latest Edition.
4. Laxminarayan Nathuramka: Bhartiya Arthvyavastha, College Book House, Jaipu, Latest Edition.
5. Laxminarayan Nathuramka, Rajasthan Economy, National Publishing House, Jaipur, Latest Edition
6. Government of India: Economic Survey (Hindi & English). Latest.
7. Government of India: Five Year Plan (Latest).


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11. MATHEMATICS

Teaching : 3 Hours Per Week Per Theory Paper
2 Hours Per week per Batch for Practical
(20 candidates in each batch)

Examination

		Min. Pass Marks	Max. Marks
Scheme : Science :		160	400
		Duration	Max. Marks
Paper-I	Discrete Mathematics	3 hrs.	100
Paper-II	Calculus	3 hrs.	100
Paper-III	Three-Dimensional Geometry and Optimization	Theory : 2½ hrs.	68
	Theory	Practical: 2 hrs.	32
Paper-IV	Number Theory	3 hrs.	100

Note.

1. Papers I, II and IV are divided into Five Units. Two questions will be set from each Unit. Candidates are required to attempt five questions in all taking One question from each Unit. All questions carry equal marks.
2. Paper III will be divided into Four independent Units. Two questions will be set from each Unit. Candidates are required to attempt Four questions in all taking one question from each unit. All questions carry equal marks.
3. Common paper will be set for both the Faculties of Social Science and Science. However, the marks obtained by the candidate in the case of Faculty of Social Science will be converted according to the ratio of the maximum marks of the papers in the two Faculties.
4. Each candidate is required to appear in the Practical examination to be conducted by internal and external examiners. External examiner will be appointed by the University and internal examiner will be appointed by the Principal in consultation with Local Head/Head, Department of Mathematics in the college.
5. An Internal/external examiner can conduct Practical Examination not more than 100 (Hundred) candidates (20 Candidates in one batch).
6. Each candidate has to pass in Theory and Practical examina-

tions separately.

Paper-I : Discrete Mathematics

Teaching : 3 Hours per week

Duration of Examination : 3 Hours

Max. Marks: 100

Note : This paper is divided into Five Units. Two questions will be set from each Unit. Candidates are required to attempt Five questions in all taking One question from each Unit. All questions carry equal marks.

Unit 1: Sets and Propositions—Cardinality, Principle of inclusion and exclusion. Mathematical induction.

Relations and Functions—Binary relations, Equivalence relations and Partitions, Partial ordered relations and Lattices, Chains and Antichains, Pigeon Hole principle.

Unit 2: Algebraic structures—Groups, Rings, Integral domains, Fields (Definitions, simple examples and elementary properties only). Boolean Algebras—Lattices and Algebraic structure, Duality, Distributive and Complemented Lattices. Boolean Lattices, Boolean functions and expressions.

Unit 3: Computability and formal languages—Ordered sets. Languages, Phrase, Structure, Grammars, Types of Grammars and Languages.

Finite State Machine—Equivalent machines, Finite State Machines as language recognizers.

Discrete numeric functions and Generating functions. Recurrence relations and Recursive Algorithms—Linear Recurrence relations with constant coefficients. Homogeneous solutions. Particular solution. Total solution. Solution by the method of generating functions.

Unit 4: Graphs—Basic terminology, Multigraphs, Weighted graphs, Paths and circuits, Shortest paths, Eulerian paths and Circuits. Travelling Salesman problem. Union, Join, Product and composition of graphs, Planar graphs and Geometric dual graphs.

Unit 5: Trees—Properties, Spanning tree, Binary and Rooted tree. Digraphs—Simple digraph, Asymmetric digraphs, Symmetric digraphs and complete digraphs. Digraph and Binary relations. Matrix representation of graphs and digraphs.

Paper-II : Calculus

Teaching : 3 Hours per week

Duration of Examination : 3 Hours

Max. Marks: 100

Note : This paper is divided into Five Units. Two questions will be set from each Unit. Candidates are required to attempt Five questions in all taking One question from each Unit. All questions carry equal marks.

Unit 1: Series—Infinite series and Convergent series Tests for convergence of a series—Comparison test, D'Alembert's ratio test. Cauchy's n-th root test, Raabe's test. De-Morgan-Bertrand's test, Cauchy's condensation test, Gauss's test. (Derivation of tests is not required). Alternating series. Absolute convergence. Taylor's theorem. Maclaurin's theorem. Power series expansion of a functions. Power series expansion of $\sin x$, $\cos x$, e^x , $\log_e(1+x)$, $(1+x)^n$.

Unit 2: Derivative of the length of an arc. Pedal equations. Curvature—Various formulae, Centre of curvature and Chord of curvature. Partial differentiation. Euler's theorem for homogeneous functions. Chain rule of partial differentiation. Differentiation of implicit functions.

Unit 3: Envelopes, Maxima and Minima of functions of two variables. Lagrange's method of undetermined multipliers. Asymptotes. Multiple points. Curve tracing of standard curves (Cartesian and Polar curves).

Unit 4: Rectification, Areas, Volumes and Surfaces of solids of revolution.

Unit 5: Double integrals in Cartesian and Polar Coordinates, Change of order of integration. Triple integrals. Application of double and triple integrals in finding areas and volumes. Dirichlet's integral.

Paper-III : Three-Dimensional Geometry and Optimization Theory

Teaching : 3 Hours per week

Duration of Examination : 2½ Hours

Max. Marks: 68

Note : (i) This paper is divided into Four Units. Two questions will be set from each Unit. Candidates are required to attempt Four questions in all taking One question from each Unit. All questions carry equal marks.

(ii) Non-Programmable Scientific Calculators are allowed.

Unit 1: Sphere, Cone and Cylinder.

Unit 2: Central Conicoids—Ellipsoid, Hyperboloid of one and two sheets, Condition of tangency for a plane, Director sphere, Normals, Generating lines of hyperboloid of one sheet and its properties. Reduction of a general equation of second degree in three dimensions to standard forms.

Unit 3: The linear programming problem. Problem Formulation. L.P.P. in matrix notation. Graphical solution of linear programming problems. Basic solution. Some basic properties of convex sets. Theorems based on convex sets. Fundamental theorem of L.P.P. Application of the Simplex method for solution of a L.P.P. to simple problems.

Unit 4: Duality. Fundamental theorem of duality, Properties and Simple problems of duality, Assignment problems. Transportation problems.

Practical :

Teaching : 2 Hours Per Week Batch

(20 Candidates in each Batch)

Examination :

Duration : 2 Hours

Scheme

Max. Marks

32

Min. Pass Marks

13

Distribution of Marks

Two Practicals one from each group

10 Marks each = 20 Marks

Practical Record = 06 Marks

Viva-Voce = 06 Marks

Total Marks = 32 Marks

Group A : Solution of a LPP by Simplex Method. Solution of the Dual of a LPP by Simplex Method.

Group B : Solution of Assignment Problems. Solution of balanced and unbalanced Transportation Problems.

Note :

1. Problems will be solved by using Scientific Calculators (non-Programmable).
2. Candidates must know about all functions and operations of Scientific Calculator.

3. Each Candidate (Regular/non Collegiate) has to prepare his/her practical record.
4. Each Candidate has to pass in Practical and Theory examinations separately.

Paper IV : Number Theory

Teaching : 3 Hours per Week

Duration of Examination : 3 Hours

Max. Marks : 100

Note : This Paper is divided into Five Units. Two questions will be set from each unit. Candidates are required to attempt Five questions in all taking **One question** from each Unit. All questions carry equal marks.

Unit 1: Divisibility—Division Algorithm, g.c.d. the Euclidean algorithm. l.c.m., Prime Infinitude of primes. Fundamental theorem of Arithmetic. Fibonacci sequence.

Unit 2: Congruence—Linear congruence, Fermat, Little and Wilson's theorems. Chinese remainder theorem. Fermat's last theorem. Euler's factorization, Mersenne's factorization.

Unit 3: Number theoretic functions, π and functions, the Mobius function, Greatest integer function, Euler phi function and the properties of Hip function. Application to Cryptography.

Unit 4: Diophantine equations— $ax + by = c$, $ax + by + cz = d$, $x^2 + y^2 = z^2$, $x^4 + y^4 = z^4$. General Integers solution of the equation $x^2 + y^2 + z^2 = w^2$ ($x, y, z, w = 1$).

Unit 5: Quadratic residues. Quadratic reciprocity. Quadratic congruence. Primitive roots for primes. Composite numbers having primitive roots. Theory of indices.

B.A. (Hons) Part - I

12. PSYCHOLOGY (HONS.)

Pt-I-2013

Scheme :

Four Theory Papers	Duration	Max. Marks	Mtn. Pass Marks
Paper-I	3 hours	75	
Paper-II	3 hours	75	
Paper-III	3 hours	75	120
Paper-IV	3 hours	75	
Practical	3 hours	100	40

Note : There will be 4 theory papers in subject Psychology in B.A. Honours Part I. There will be common papers for Arts and Sciences.

Question No. 1 will be compulsory and will cover the entire course contents of the paper. Question I will contain two parts A & B. A part of I question will contain 20 questions of multiple choice. Each question will be of 3/4 mark. Thus A part will be of 15 marks. B part will contain 10 questions to be answered in the limit of 20 words. Each question of B part will be of 1½ marks. Thus B Part will be of 15 marks. Separate question paper for this objective type will be provided to each student and answers will be given in this question paper only in the space provided for this purpose in the objective type question paper. Candidates will be given one hour to attempt this first compulsory question out of three hours in total time allotted for this paper.

In the second part of the question paper, three questions of essay type will be attempted selecting at least one from each section. Each question will be of 15 marks. This objective type question will be compulsory to attempt in all four theory papers.

B.A./ B.Sc. Honours Part-I

Paper-I: Advanced General Psychology

Section-A

1. **Introduction to psychology: Nature, Methods and Recent Trends.**
2. **Learning: Classical conditioning, Operant Conditioning- Reward, Punishment, Avoidance and Escape Procedures, Theories (Thorndike, Hull, Skinner).**
3. **Verbal learning and Concept learning- Verbal learning-Nature, Material and Experimental Method, Serial Position Curve, Clustering, Coding. Concept learning- Definition, Paradigm, Determinants and Theories.**

Section-B

4. **Perception- Analysis of Perceptual Process, Determinants of Perception, Gestalt view of perception, Illusion, Depth perception.**
5. **Retention and Forgetting-Levels of memory processing, STM, LTM, Proactive and Retroactive inhibition, Causes of Forgetting, Forgetting curve.**
6. **Transfer of training- Experimental design and measures of transfer, non-specific transfer, warm up, specific transfer, similarity relations.**

Section-C

7. **Motivation and Emotion-Motivation-Nature and Types, Emotion- Elements: Physiology, Expression and Subjective Experience; Physiological correlates of**

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Emotion, Theories (James-Lange, Cannon Bard, Activation theory).

8. **Intelligence-** Nature, Determinants, Measurement and Theories.
9. **Personality-** Nature, Theories, Determinants, Measurement.

Reference Books:

1. Morgan, King & Robinson- Introduction to Psychology, 1986.
2. Atkinson-Introduction to Psychology
3. Wood worth, R.S. & Scholosberg, H- Experimental Psychology, Indian Edition, Oxford & I.B.H. publication, Calcutta, 1971.
4. Baron. R.A. (2003). Psychology. Allyn and Bacon. New Delhi Prentice Hall India.
5. Gerrig, R.J. and Zimbardo, P.G. (2005). Psychology and Life. New Delhi. Pearson Education.
6. Ciccarelli, S.K. and Meyer, G.E. (2006). Psychology. New Delhi, Pearson Education.
7. सिंह. अरुण कुमार (2002). आधुनिक सामान्य मनोविज्ञान. नई दिल्ली, मोती लाल बनारसीदास

Paper-II: Psychopathology

Section-A

1. **Abnormal Behaviour: Nature and Concept. Vulnerability, Resilience and Coping Paradigm. Mental Health: Meaning and Components.**
2. **Theoretical Perspectives: Biological, Psychodynamic, Behavioural, Cognitive, Humanistic, Existential, Community – Cultural, Interactional.**
3. **Symptomatology and Etiology of abnormal behaviour.**

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Section-B

4. **Classification and Assessment:** The latest classification system of APA and WHO. Interview and Psychometric assessment: Personality, Behavioural, Cognitive, Relational, Bodily Assessment.
5. **Somatoform and Anxiety disorders:** Nature and Clinical Picture of Pain, Somatization, Conversion-disorders and Hypochondriasis. Nature and Clinical Picture of Generalized Anxiety, Panic, Obsessive-Compulsive and Post-Traumatic Disorder and Phobias.
6. **Personality disorders:** Classification, Nature and Clinical Picture.

Section-C

7. **Schizophrenia and other Psychotic disorders:** Nature, Clinical Picture and Types.
8. **Mood disorders and Substance related disorders:** Nature and clinical picture of Depression, Depressive and Bipolar Disorders. Nature of Substance-use and Substance-induced Disorders. Clinical Picture of Alcohol-related, Nicotine-related and Sedative-Hypnotic or Anxiolytics-Related Disorders.
9. **Treatment and prevention:** Psychotherapies-Client Centered, Cognitive, Psychoanalytic, Behavioural. Prevention: Levels, Situation-Focused and Competency-Focused, Sites of Prevention.

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Reference Books:

1. Sarason, I.G. and Sarason, B.R. (2005) Abnormal Psychology. Delhi, Pearson Education
2. Lamm, A (1997): Introduction to Psychopathology N.Y. Sage.
3. Buss, A.H. (1999): Psychopathology, N.Y. John Wiley.
4. Arun Kumar Singh (2002), Adhunik Asamanya Manovigyan, Delhi, Motilal Banarsidas.

Paper-III: Developmental Psychology

Section-A

1. **Human Development: Nature and Scope: Domains and Periods of Development: Basic Issues: Longitudinal and Cross-Sectional Researches.**
2. **Foundations of Human Development: Biological, Socio-environmental and Cultural Factors: Types of Influences: Internal and External, Normative and Non-Normative, Contexts and Timing of Influences.**
3. **Self and Identity: Self Awareness, Self Concept and Self-Esteem- Cognitive Social and Cultural Influences. Identity: Construction and Influences on Identity Development, Identity Statuses.**

Section-B

4. **Psychoanalytic and Psychodynamic Theories of Development: Freud's Psychoanalytic, Erikson's Psychosocial, Bowlby's Ethological Theory of Attachment.**

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5. **Social Learning and Cognitive Theories of Development:** Bandura's Social Learning Theory, Piaget's Cognitive – Stage Theory, Vygotsky's Socio-Cultural Theory, Information Processing and Language Development.
6. **Emotional and Moral Development:** Functions of Emotions, Development of Emotional Expression, Temperament and Development. Moral Development: Piaget's and Kohlberg's Theories. Influences on Moral Reasoning.

Section-C

7. **Problem of Adulthood and Aging:** Marriage, Family and Work. Gerontology and Theories of Aging: Damage Theories, Genetic Clock Theories and Bio-Psychosocial Model, Aging Disabilities: Physical and Mental.
8. **Developmental Psychopathologies:** Learning Disabilities, Conduct Disorder, Autism, ADHD, MR.
9. **Stress and Health:** Nature and Types of Stress, Physiology of Stress, Causes and Consequences of Stress, Stress Management.

Reference Books:

1. Berk, L.E. (2003) Child Development. Delhi, Pearson Education.
2. Santrock, J.W. (1999), Lifespan Development. New York, McGraw Hill.
3. Hurlock, E. (2003) Developmental Psychology. Delhi, Tata McGraw Hill
4. Papalia, S. and Feldman, C. (2002) Adult Development and Aging. Delhi, Tata McGraw Hill.
5. Berk, L.E.(2010) Development through the Life Span. Delhi, Pearson Education.

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6. Sigelman, C.K. and Rider E.A. (2003) Life Span Human Development. Thomson- Wadsworth.
7. Mishra, G. (1999) Psychological Perspectives on Stress and Health, New Delhi, Concept.

Paper-IV: Statistical Foundations of Psychological Research

Section-A

1. **Overview of experimentation-** (i) Problem, (ii) Hypothesis, (iii) Experimental Plan, (iv) Experimental control, (v) Dependent and independent variables.
2. **Designs-** (i) Factorial (ii) Randomised groups.

Section-B

3. **Descriptive Statistics -** (i) Setting of Frequency of Distribution, (ii) Frequency Polygon and Histogram, (iii) Measures of Central Tendency- Mean (grouped data), Assumed Mean, Median, Mode, (iv) Measures of Variability - Range, QD, AD and SD, (v) Co-efficient of Variation.
4. **Inferential Statistics-** (i) Normal Distribution- Meaning, Importance and Properties, (ii) Standard Error Formula- Mean, Median, SD, (iii) Sampling.

Section-C

5. **Test of Significance-** (i) Chi-Square Test (Equal and Normal Probability), (ii) Null Hypothesis, (iii) Mean Difference ('t' test), (iv) Significance of Difference of SD, (v) Significance of Difference of Percentages, (vi) One-way Analysis of Variance.

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6. **Correlation- Meaning, Product Moment Method, Correlation by Rank.**

Reference Books:

1. Aron, A. Aron, E. and Coups, E. (2007). Statistics for psychology. (IV edition). New Delhi, Pearson Education.
2. Garrett, H. (1981) Statistics in psychology and education. Mumbai: Vakil febber and Simons.
3. Guilford, J.P. (1975) Fundamental statistics in psychology and education. New York: McGraw Hill
4. Siegel, S. (1988) Nonparametric Statistics for Behavioural Sciences. New York, McGraw Hill.

Practicals:

1. Method of Average Error- Muller Lyer Illusion.
2. Figure Ground Reversal
3. Serial Position Effect
4. Assessment of Anxiety
5. Assessment of Mental Health
6. Measurement of Personality
7. IQ Assessment.
8. Bilateral Transfer of Training
9. Concept Formation
10. Maze Learning
11. Social Maturity
12. Parent Child Relationship Scale

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13. GEOGRAPHY (HONS.)

Scheme :

Min. Pass Marks 160 (40%)

Max. Marks 400

Paper-I	Physical Geography	Max. Marks 80
Paper-II	Human Geography	Max. Marks 80
Paper-III	Economic Geography	Max. Marks 80
Paper-IV	Cultural Geography	Max. Marks 80
Practical		Max. Marks 80

Notes :

1. Student are premitted to use the stencils, simple calculator and log tables whenever needed the examination.
2. There will be a common paper for Science and Arts.
3. Nine questions will be set with three questions from each section.