

Syllabus for English (LAQP01)

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Question paper will be in English.*

English (LAQP01)

1. History of English and Indian Literatures:

- Major Authors
- Texts
- Literary Movements

2. Indian Writing in English:

- Major Authors
- Texts including English translations
- History

3. Literary Terms:

- Allegory
- Ballad
- Blank Verse
- Comedy
- Dissociation of Sensibility
- Dramatic Monologue
- Elegy
- Enlightenment
- Epic
- Fancy and Imagination
- Imitation
- Intentional Fallacy
- Motif
- Ode
- Onomatopoeia
- Paradox
- Plot

- Figures of Speech
- Satire
- Soliloquy
- Sonnet
- Tragedy
- Wit, (etc.)

4. Literary Genres:

- Fiction and Non-fiction
- Life writings
- Diary
- Drama
- Essay
- Novel
- Poetry
- Prose
- Short Story
- Epic
- Travelogue
- Science Fiction, (etc.)

5. Comparative Literature and Translations studies:

- Concepts
- Theories
- Texts

6. Literary Criticism and Theory:

- Classical and Modern Criticism
- Marxism
- Structuralism and Post-structuralism
- Feminism
- Eco-criticism
- Post Colonialism

7. Awareness of Current Literary Trends, Events, Awards etc.

Syllabus for Political Science (HUQP18)

Political Science (HUQP18)

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Questions will be Bilingual (English/Hindi).*

Political Science (HUQP18)

Western Political Philosophy:

- Plato
- Aristotle
- Machiavelli
- Hobbes
- Locke
- Rousseau
- J.S. Mill
- Karl Marx
- John Rawls

Indian Political Thought:

- Ram Mohan Roy
- Gandhi
- Ambedkar
- Savarkar
- Kautilya

Political theory:

- Concepts of liberty
- Equality
- Justice
- Sovereignty
- Citizenship and Gender
- Democracy human Rights, State

- Contemporary Issues
- Feminism Ideology

International Relations:

- Realism & Liberalism
- Cold War politics
- NAM, SAARC, UNO, ASEAN, EU
- India's foreign policy particularly with China
- Pakistan and USA.

Indian Government and Politics:

- Preamble
- Making of the Constituent Assembly
- Constitutional Provisions
- Parliament
- Cabinet
- Prime Minister
- President
- Fundamental Rights
- Fundamental Duties
- Directive Principles of State Policy
- Amendments
- Governor
- State Government
- Federalism
- Political Parties (National and Regional)
- Elections
- Local Government
- Judiciary
- Governance

Comparative Government and Politics

- Political Culture
- Political Parties

Political Science (HUQP18)

- Electoral Systems
- Approaches/ Models
- Types of Regimes

Public Policies in India

- Models
- Process
- Types

General issues of contemporary relevance.

- Global Justice
- Nationalism
- Climate Change

Syllabus for Telugu (LAQP36)

Note:

- i. *The Question Paper which will have 75 questions.*
- ii. *All questions will be based on Subject-Specific Knowledge.*
- iii. *All questions are compulsory.*
- iv. *The Question paper will be in Telugu.*

Telugu (LAQP36)

1. ప్రాచీన తెలుగు సాహిత్యము – చరిత్ర- సంస్కృతి

అనువాద యుగము (కావ్యేతిహాసయుగము), ప్రబంధయుగము , దక్షిణాంధ్రయుగము, వివిధ ప్రక్రియలు

2. ఆధునిక తెలుగు సాహిత్యము

వివిధ ప్రక్రియలు – కవిత్వము, కథ,కథానిక, నవల,నాటకం, స్వీయచరిత్రలు

వివిధ సాహిత్యశాఖలు – భావకవిత్వము, అభ్యుదయకవిత్వము, విప్లవకవిత్వము, స్త్రీవాదకవిత్వము, దళితవాద

కవిత్వము, మైనారిటీ వాద కవిత్వము, అస్తిత్వవాదకవిత్వము, మానవతావాదకవిత్వము, హేతువాదకవిత్వము.

3. జానపదసాహిత్యము

గేయ వచన ప్రదర్శనకళా శాఖలు

4. భాషా వ్యాకరణములు

తెలుగు భాషాపరిచయం, వ్యాకరణపరిచయం – సంధి, సమాసాది సాధారణ పరిచయం

Syllabus for Computer Science and Information Technology (SCQP09)

Note:

- i. *The Question Paper which will have 75 questions.*
- ii. *All questions will be based on Subject-Specific Knowledge.*
- iii. *All questions are compulsory.*
- iv. *The Questions will be Bilingual (English/Hindi).*

Computer Science and Information Technology (SCQP09)

Thinking and Decision Making: Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures & diagrams.

- Geometrical designs & Identification
- Selection of related letters / words / numbers / figures
- Identification of odd thing / item out from a group
- Completion of numerical series based on the pattern / logic
- Fill in the blanks of the series based on the numerical pattern and logic of the series
- Syllogisms (logic-based questions), Identification of logic & selection of correct answers based on the logic

Mathematics:

- Set Theory: Concept of sets – Union, Intersection, Cardinality, Elementary counting; permutations and combinations. • Probability and Statistics: Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, measures of central tendencies and dispersions.
- Algebra: Fundamental operations in algebra, expansions, factorization, simultaneous linear / quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, determinants and matrices.
- Coordinate Geometry: Rectangular Cartesian coordinates, distance formulae, equation of a line, and intersection of lines, pair of straight lines, equations of a circle, parabola, ellipse and hyperbola.
- Calculus: Limit of functions, continuous function, differentiation of function, tangents and normal, simple examples of maxima and minima. Integration of functions by parts, by substitution and by partial fraction, definite integrals, applications of definite integrals to areas.

Computer :

- Operating System: Main functions of operating systems, Processes, Threads, Interprocess communication, concurrency, Synchronization, Deadlock, CPU scheduling, I/O scheduling, Resource scheduling. Deadlock and scheduling algorithms, banker's algorithm for deadlock handling. Memory management and virtual memory. File Systems, I/O systems, DOS, UNIX and Windows.
- Data Structure: Arrays and their Applications; Sparse Matrix, Stacks, Queues, Priority Queues, Linked Lists, Trees, Forest, Binary Tree, Threaded Binary Tree, Binary Search Tree, AVL Tree, B Tree, B+ Tree, B* Tree, Data Structure for Sets, Graphs, Sorting and Searching Algorithms; Hashing. Functions, Recursion, Parameter passing.

Computer Science and Information Technology (SCQP09)

- Digital Fundamentals: Data Types, Number Systems and Conversion, Complements, Fixed Point Representation, Floating Point Representation, Error Detection Codes, Computer Arithmetic - Addition, Subtraction, Multiplication and Division Algorithms, Digital Computers, Logic Gates, Boolean Algebra, Map Simplifications, Combinational Circuits, Flip-Flops, Sequential Circuits, Integrated Circuits, Decoders, Multiplexers, Registers and Counters, Memory Unit.

Syllabus for Psychology (HUQP20)

Psychology (HUQP20)

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Questions will be Bilingual (English/Hindi).*

Psychology (HUQP20)

1. Introduction to Psychology
2. History of Psychology
3. Schools of Psychology
4. Biological bases of Behavior
5. Learning, Memory
6. Sensation and Perception
7. Emotion and Motivation
8. Intelligence
9. Personality
10. Psychological Testing
11. Life-span Development
12. Abnormal and Clinical Psychology
13. Statistics for Psychology.

Syllabus for Economics (COQP10)

Note:

- i. *The Question Paper which will have 75 questions.*
- ii. *All questions will be based on Subject-Specific Knowledge.*
- iii. *All questions are compulsory.*
- iv. *The Questions will be Bilingual (English/Hindi).*

Economics (COQP10)

Micro Economics:

- Consumer Theory or Behavior: Demand, Utility, Indifference Curve, Revealed Preference Theory, Consumer Surplus
- Production Theory: Production Function, Law of Variable Proportions, Returns to Scale, Cost Function, types and concepts
- Price and Output determination in Market: Perfect and Imperfect Competition (Monopoly, Price Discrimination, Monopolistic, Duopoly and Oligopoly models) General Equilibrium, Efficiency and Welfare: Equilibrium and efficiency under pure exchange and production; overall efficiency and welfare economics, externality

Macro Economics:

- National Income Accounting
- Income and Output Determination: Aggregate Demand and Aggregate Supply, Effective Demand Principle, Classical and Keynesian Theory

Money and Inflation:

- Demand and Supply of Money, Money Multiplier and High-Powered Money, Credit Creation, Role of Reserve Bank of India and Commercial Banks, Quantitative Theories of Money, Philip's Curve
- Monetary and Fiscal Policy of India and its role.

Consumption and Investment Function:

- Permanent, Relative and Life Cycle Hypothesis, determinants of business fixed investment; residential investment and inventory investment, Multiplier and Accelerator
- Open Economy Models: Mundell and Fleming Model (IS, LM and BP curve), Balance of Payments, exchange rate determination, Purchasing Power Parity
- Economic Growth: Harrod-Domra Model, Solow Model

Statistical Methods in Economics:

- Mean, Mode, Median, Dispersion, Skewness, Quartile Deviation, Average Deviation, Standard Deviation
- Correlation
- Simple Regression Model Probability Distribution Sampling

Mathematical Methods in Economics:

- Sets and Vector
- Functions of one and several real variables Single and Multi-variable optimization
- Integration of functions
- Difference equations
- Determinants Matrix
- Linear Programming Probability
- Differential Equations

Indian Economy:

Overview of colonial economy:

- Macro Trends: National Income; population; occupational structure.
- Agriculture: Agrarian structure and land relations; agricultural markets and institutions – credit, commerce and technology; trends in performance and productivity; famines. Railways and Industry: Railways; the de-industrialization debate; evolution of entrepreneurial and industrial structure; nature of industrialization in the interwar period; constraints to industrial breakthrough; labor relations.
- Economy and State in the Imperial Context
- The imperial priorities and the Indian economy; drain of wealth; international trade, capital.
- Flows and the colonial economy – changes and continuities; government and fiscal policy.
- New Economic Policy:
- Public Economics: Public and Private Goods, Externalities, Budget, Deficits, Public Debt, Fiscal Federalism in India,
- Taxation: its economic effects; dead weight loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation.
- International Trade Theories: Adam Smith, Ricardo, Heckscher-Ohlin model and New Trade Theories

Syllabus for Mathematics (SCQP19)

Mathematics (SCQP19)

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Questions will be Bilingual (English/Hindi).*

Mathematics (SCQP19)

Algebra: Groups, subgroups, Abelian groups, non-abelian groups, cyclic groups, permutation groups; Normal subgroups, Lagrange's Theorem for finite groups, group homomorphism and quotient groups, Rings, Subrings, Ideal, Prime ideal; Maximal ideals; Fields, quotient field.

Vector spaces, Linear dependence and Independence of vectors, basis, dimension, linear transformations, matrix representation with respect to an ordered basis, Range space and null space, rank-nullity theorem; Rank and inverse of a matrix, determinant, solutions of systems of linear equations, consistency conditions. Eigenvalues and eigenvectors. Cayley-Hamilton theorem. Symmetric, Skew symmetric, Hermitian, Skew-Hermitian, Orthogonal and Unitary matrices.

Real Analysis: Sequences and series of real numbers. Convergent and divergent sequences, bounded and monotone sequences, Convergence criteria for sequences of real numbers, Cauchy sequences, absolute and conditional convergence; Tests of convergence for series of positive terms-comparison test, ratio test, root test, Leibnitz test for convergence of alternating series.

Functions of one variable: limit, continuity, differentiation, Rolle's Theorem, Cauchy's Taylor's theorem. Interior points, limit points, open sets, closed sets, bounded sets, connected sets, compact sets; completeness of \mathbb{R} , Power series (of real variable) including Taylor's and Maclaurin's, domain of convergence, term-wise differentiation and integration of power series.

Functions of two real variable: limit, continuity, partial derivatives, differentiability, maxima and minima. Method of Lagrange multipliers, Homogeneous functions including Euler's theorem.

Complex Analysis: Functions of a complex Variable, Differentiability and analyticity, Cauchy Riemann Equations, Power series as an analytic function, properties of line integrals, Goursat Theorem, Cauchy theorem, consequence of simply connectivity, index of a closed curves. Cauchy's integral formula, Morera's theorem, Liouville's theorem, Fundamental theorem of Algebra,

Mathematics (SCQP19)

Harmonic functions.

Integral Calculus: Integration as the inverse process of differentiation, definite integrals and their properties, Fundamental theorem of integral calculus. Double and triple integrals, change of order of integration. Calculating surface areas and volumes using double integrals and applications.

Calculating volumes using triple integrals and applications.

Differential Equations: Ordinary differential equations of the first order of the form $y' = f(x, y)$.

Bernoulli's equation, exact differential equations, integrating factor, Orthogonal trajectories,

Homogeneous differential equations-separable solutions, Linear differential equations of second and higher order with constant coefficients, method of variation of parameters. Cauchy-Euler equation.

Vector Calculus: Scalar and vector fields, gradient, divergence, curl and Laplacian. Scalar line integrals and vector line integrals, scalar surface integrals and vector surface integrals, Green's, Stokes and Gauss theorems and their applications.

Linear Programming: Convex sets, extreme points, convex hull, hyper plane & polyhedral Sets, convex function and concave functions, Concept of basis, basic feasible solutions, Formulation of Linear Programming Problem (LPP), Graphical Method of LPP, Simplex Method.

Syllabus for Life Sciences (SCQP17)

Life Sciences (SCQP17)

Note:

- i. *The Question Paper which will have 75 questions.*
- ii. *All questions will be based on Subject-Specific Knowledge.*
- iii. *All questions are compulsory.*
- iv. *The Questions will be Bilingual (English/Hindi).*

Life Sciences (SCQP17)

1. **Techniques:** Principles and applications of chromatography, spectroscopy, microscopy, electrophoresis, centrifugation, blotting, PCR & radioisotope techniques
2. **Chromatin structure and function:** Organization of chromosomes in prokaryotes and eukaryotes, chromatin types, centromere, Telomere and concept of gene
3. **Biochemistry:** Structure and functions of proteins, DNA, carbohydrates, lipids & vitamins. Bioenergetics, Glycolysis, TCA cycle, Electron Transport System and ATP synthesis, oxidation and synthesis of fatty acid, membrane structure and function
4. **Biotechnology:** Recombinant DNA technology, principles of gene cloning, applications of biotechnology in medicine, industry and agriculture, animal & plant cell culture, environmental biotechnology
5. **Microbiology:** Diversity of microbes, bacterial reproduction, antimicrobial agents, significance of microbes in the industry and agriculture, antigen, antibody, complement systems, immunity, vaccines, plant virus, animal virus and environmental microbiology.
6. **Molecular Genetics:** Principles of inheritance, linkage & crossing over, chromosomal aberrations, extrachromosomal inheritance, replication, transcription, translation, DNA repair and population genetics
7. **Plant Sciences:** Bryophytes, Pteridophytes, Gymnosperms, Angiosperms, Vascular system in plants, Economic important of plants, Photosynthesis, Photoperiodism, Vernalization, and Biogeochemical cycle
8. **Animal Sciences:** Characteristics of invertebrates and vertebrates, anatomy and physiology of different system of humans, nerve impulse transmission, endocrinology, human diseases Apoptosis and cancer, inherited diseases, animal cell culture.

Syllabus for Statistics (SCQP27)

Note:

- i. *The Question Paper which will have 75 questions.*
- ii. *All questions will be based on Subject-Specific Knowledge.*
- iii. *All questions are compulsory.*
- iv. *The Questions will be Bilingual (English/Hindi).*

Statistics (SCQP27)

1. **Sequences and Series:** Convergence of sequences of real numbers, Comparison, root and ratio tests for convergence of series of real numbers.
2. **Differential Calculus:** Limits, continuity and differentiability of functions of one and two variables. Rolle's Theorem, mean value theorems, Taylor's theorem, indeterminate forms, maxima and minima of functions of one and two variables.
3. **Integral Calculus:** Fundamental theorems of integral calculus. Double and triple integrals, applications of definite integrals, arc lengths, areas and volumes.
4. **Matrices:** Rank, inverse of a matrix. Systems of linear equations. Linear transformations, eigenvalues and eigenvectors. Cayley-Hamilton theorem, symmetric, skew-symmetric and orthogonal matrices.
5. **Differential Equations:** Ordinary differential equations of the first order of the form $y' = f(x,y)$. Linear differential equations of the second order with constant coefficients.
6. **Descriptive Statistics and Probability:** Measure of Central tendency, Measure of dispersion, skewness and Kurtosis, Elementary analysis of data. Axiomatic definition of probability and properties, conditional probability, multiplication rule. Theorem of total probability. Bayes' theorem and independence of events.
7. **Random Variables:** Probability mass function, probability density function and cumulative distribution functions, distribution of a function of a random variable. Mathematical expectation, moments and moment generating function. Chebyshev's inequality.
8. **Standard Distributions:** Binomial, negative binomial, geometric, Poisson, hyper-geometric, uniform, exponential, gamma, beta and normal distributions. Poisson and normal approximations of a binomial distribution. Chi-square distribution, t-distribution and F-distribution.
9. **Joint Distributions:** Joint, marginal and conditional distributions. Distribution of functions of random variables. Product moments, correlation, simple linear regression. Independence of

Statistics (SCQP27)

- 10. random variables Limit Theorems:** Weak law of large numbers. Central limit theorem (i.i.d. with finite variance case only).
- 11. Estimation:** Unbiasedness, consistency and efficiency of estimators, method of moments and method of maximum likelihood. Sufficiency, factorization theorem. Completeness, Rao-Blackwell and Lehmann-Scheffe theorems, uniformly minimum variance unbiased estimators. Rao-Cramer inequality. Confidence intervals for the parameters of univariate normal, two independent normal, and one parameter exponential distributions.
- 12. Testing of Hypotheses:** Basic concepts, applications of Neyman-Pearson Lemma for testing simple and composite hypotheses. Likelihood ratio tests.
- 13. Sampling and Designs of Experiments:** Simple random sampling, stratified sampling and Cluster sampling, One-way, two-way analysis of variance. CRD, RBD, LSD and 2^2 and 2^3 factorial experiments.

**Syllabus
for
Applied Geography and
Geoinformatics (COQP02)**

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Questions will be Bilingual (English/Hindi).*

Applied Geography and Geoinformatics (COQP02)

Human Geography

1. Definition, Nature, Major Subfields, Contemporary Relevance.
2. Space and Society: Cultural Regions; Race; Religion and Language
3. Population: Population Growth and Demographic Transition Theory.
4. World Population Distribution and Composition (Age, Gender and Literacy).
5. Settlements: Types and Patterns of Rural Settlements; Classification of Urban Settlements; Trends and Patterns of World Urbanization.

General Cartography

1. Maps – Types, Elements and Uses
2. Map Scale – Types and Application, Reading Distances on a Map.
3. Map Projections – Criteria for Choice of Projections; Attributes and Properties of: Zenithal Gnomonic Polar Case, Zenithal Stereographic Polar Case, Cylindrical Equal Area, Mercator's Projection, Conical Projection with Two Standard Parallel, Bonne's Projection.
4. Representation of Data – Symbols, Dots, Choropleth, Isopleth and Flow Diagrams, Interpretation of Thematic Maps.

Environmental Geography:

1. Concepts and Approaches; Ecosystem – Concept and Structure; Ecosystem Functions.
2. Human-Environment Relationship in Equatorial, Desert, Mountain and Coastal Regions.
3. Environmental Problems and Management: Air Pollution; Biodiversity Loss; Solid and Liquid Waste.
4. Environmental Programmes and Policies: Developed Countries; Developing Countries.
5. New Environmental Policy of India; Government Initiatives.

Geography of India

1. Physical Setting – Location, Structure and Relief, Drainage, Climate.
2. Population – Size and Growth since 1901, Population Distribution, Literacy, Sex Ratio.
3. Settlement System – Rural Settlement Types and Patterns, Urban Pattern.
4. Resource Base – Livestock (cattle and fisheries), Power (coal, and hydroelectricity), Minerals (iron ore and bauxite).
5. Economy – Agriculture (Rice, Wheat, Sugarcane, Groundnut, Cotton); Industries (Cotton Textile, Iron- Steel, Automobile), Transportation Modes (Road and Rail).

Economic Geography

1. Definition, Approaches and Fundamental Concepts of Economic Geography; Patterns of Development.
2. Locational Theories – Agriculture (Von Thunen) and Industrial (Weber).
3. Primary Activities – Intensive Subsistence Farming, Commercial Grain Farming, Plantation, Commercial Dairy Farming, Commercial Fishing, and Mining (iron ore, coal and petroleum).
4. Secondary Activities – Cotton Textile Industry, Petro-Chemical Industry, Major Manufacturing Regions.
5. Tertiary and Quaternary Activities – Modes of Transportation, Patterns of International Trade, and Information and Communication Technology Industry.

Disaster Management

1. Hazards, Risk, Vulnerability and Disasters: Definition and Concepts.
2. Disasters in India: (a) Causes, Impact, Distribution and Mapping: Flood, Landslide, Drought.
3. Disasters in India: (b) Causes, Impact, Distribution and Mapping: Earthquake, Tsunami and Cyclone.
4. Human induced disasters: Causes, Impact, Distribution and Mapping.
5. Response and Mitigation to Disasters: Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During Disasters

Geography of Tourism

1. Concepts, Nature and Scope; Inter-Relationships of Tourism, Recreation and Leisure; Geographical Parameters of Tourism by Robinson.
2. Type of Tourism: Nature Tourism, Cultural Tourism, Medical Tourism, Pilgrimage
3. Recent Trends of Tourism: International and Regional; Domestic (India); Eco-Tourism, Sustainable Tourism, Meetings, Incentives, Conventions and Exhibitions (MICE)
4. Impact of Tourism: Economy; Environment; Society
5. Tourism in India: Tourism Infrastructure; Case Studies of Himalaya, Desert and Coastal and Heritage; National Tourism Policy

Sustainability and Development

1. Sustainability: Definition, Components and Sustainability for Development.
2. The Millennium Development Goals: National Strategies and International Experiences
3. Sustainable Development: Need and examples from different Ecosystems.
4. Inclusive Development: Education, Health; Climate Change: The role of higher education in sustainability; The human right to health; Poverty and disease; Sustainable Livelihood Model; Policies and Global Cooperation for Climate Change
5. Sustainable Development Policies and Programmes: Rio+20; Goal-Based Development; Financing for Sustainable Development; Principles of Good Governance; National Environmental Policy, CDM.

Syllabus for Commerce (COQP08)

Commerce (COQP08)

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Questions will be Bilingual (English/Hindi).*

Commerce (COQP08)

Micro Economics

1. Definition Nature and Scope of Economics, Marshall & Robins Views. Utility of Economics, Micro vs. Macromedia of Economics Study, Economic Theory and Business Decisions.
2. Utility Analysis, Consumer Behavior, Consumer's Equilibrium. Traditional Approach and Indifference Curve and Analysis: Price Income and Substitution Effects. Some Application of Indifference Curve Techniques, Elasticity of Demand.
3. Production – Equal Product Curves, Scale of Production: Input-Output Relationship, Cost Curves; Variable Cost Conditions and Law of Variable Proportions, Producers' Equilibrium. Product Pricing – Market Format, Perfect Competition, Monopoly and Imperfect Completion.
4. Pricing of Factors of Production, Concept of Marginal Productivity, Theories of Rent, Wages, Theories of Interest and Profit.

Currency and Banking

1. Functions Significance of Money, Various Forms of Money, Causes, Remedies and Effects of Inflation, Deflation and Reflation Indian Money Market, Principles Methods of Note Issues, Monetary Standard – Gold Standard, Bi-metallize and Managed Currency Standard.
2. Meaning and Significance of Credit. Factors Influencing the Volume of Credit in Country, Credit Creations of Bank, Credit Control by RBI.
3. Functions of Commercial Bank, Types of Banks, Unit and Branch Banking System, Concept of Mix Banking, Central Bank and its Functions, Reserve Bank of India, State Bank of India, Regional Rural Banks, Progress of Nationalized Banks in India
4. Concept of Foreign Exchange and Exchange Rate, Factors Causing Fluctuation in Exchange Control Meaning, Objective and Methods.

Essential of Management

1. Nature, Scope and Functions of Management, Evolution of Management Thought, Various Approaches to Management, Functions of a Manager, Introduction to Corporate Social Responsibility.

Commerce (COQP08)

2. Planning: Objective, Nature and Process of Planning, SWOT Analysis, Formulation of Plans, Decision Making Process. Organizing: Objectives, Nature and Process of Organizing Formal and Informal Organization, Authority and Responsibility, Delegation and Empowerment, Centralization and Decentralization, Concept of Departmentation, Organization Chart, Line, Staff and Functional Relationships.
3. Staffing: Concept, Manpower Planning, Recruitment, Selection, Training and Development, Performance Appraisal. Directing: Concept and Techniques of Motivation and Leadership. Process and Barriers to Communication.
4. Controlling: Concept, Need and Techniques. Controlling: Concept, Process and Techniques and Control, Management by Objectives (MBO) Management by Exception (MBE), Essentials of Effective Control, Managerial Effectiveness.

Office Management

1. Office: Meaning, Importance, Activities, Emerging Trends, Concept of Paperless Office.
2. Office Management: Meaning, Functions. Office Organization: Definition, Characteristics, Types of Organization, Office Systems and Procedures, Charts and Manuals. Office Location, Layout and Environment, Flow of Work.
3. Computer Fundamentals: Concept, Components and Types of Computers. Operating System: Concept, Functions, Types. Managing Files and Folders. Internet: Basics, Features, Methods of Access. Applications and Benefits of Computerization and Internet in Office. Introduction to Word Processing and Spreadsheets: Templates and Creation of Documents, Editing and Formatting, Creating tables, Basic Applications.
4. Office Record Management: Importance, Filing Essentials, Modern Methods of Filing, Modern Filing Devices, Indexing System. Office Forms: Meaning, Principles, Design and Control of Office Forms.
5. Office Supplies: Management and Control of Office Supplies. Office Correspondence: Types, Centralized and Decentralized Correspondence, Procedure of Handling Inward and Outward Correspondence, Electronic Communication.
6. Office Information System: Concept, Basic Types and Business Applications. Planning and Designing of Information System: System Development Life Cycle, Flow Charts. Office Reports: Types of Reports, Report Writing and Precis Writing.
7. E-Commerce: Concepts, Types, Business Models, E-payment Systems.

Accounting

1. Accounting an Introduction: Accounting Standard – National and International, Partnership Accounts – Admission, Retirement & Death and Dissolution of Partnership Firm.
2. Absorption, Amalgamation and Reconstruction of Companies, Liquidation of Companies and Preparation of a Liquidator's Final Statement of Account.
3. Hire Purchase and Instalment Accounts, Royalties Accounts, Insolvency Accounts.
4. Branch Account: Voyage Accounts, Accounts of Empties and Packages; Insurance Claim for Loss of Stock and Loss of Profit.

Business Organization

1. Definition, Nature and Scope of Business, Business and Society, Social Responsibility of Business, Factors Determining the Size of Business Unit. Forms of Business Organization – A Comparative Study.
2. Monopolistic Combination, Production Management, Rationalization & Methods of Remunerating Labor.
3. Organization Process – Importance, Principles, Various Aspects of Organization, Organization Structure, Departmentation, Line and Staff Relationships, Span of Control, Delegation of Authority, Decentralization.
4. Produce and Stock Exchange: Its Organization and Economic Functions.

Statistical Methods

1. General – The Nature and Scope of Statistics: Definition of Statistics. Law of Statistical Regularity: Law of Inertia of Large Numbers. Probability and Sampling. Limitations of Statistics.
2. Methods of Statistical Enquiry – Types and Characteristics of Units. Methods of Collection of Data; Questionnaire and Schedule; Proximations and Accuracy, Errors and their Effects.
3. Classification and Tabulation – Objects, General- Rules for the Construction of Tables; Statistical Series.
4. Measure of Central Tendency – Mean Mode, Median, Quartile Harmonic and Geometric Mean.
5. Measurement of Dispersion and Skewness – Range, Quartile Deviation, Mean Deviation, Standard Deviation and their Coefficients; Measures of Skewness.
6. Correlation Analysis – Graphic Method, Scatter Diagram, Karl Pearson's Coefficient of Correlation, Spearman's Ranking Method, Lag and Lead, Probable and Standard Error.
7. Regression Analysis – Linear Regression, Regression Lines, Regression Equations.
8. Interpolation – Assumptions, Newtons' Advancing Differences, LaGrange's' Formula; Parabolic Curve Method; Binominal Expansion Method.

Public Finance

1. Public Finance – Definition and Scope; Public and Private Finance.
2. Public Revenue – Sources of Public Revenue; Nature and Principles of Taxation; Classification of Taxes; Problems Principles of Equity in Taxation. Incidence of Taxation; Shifting of Taxes. Effects of Taxation. Requirements of a Sound tax System. Canons of Taxation.
3. Principle of Maximum Social Advantage.
4. Public Expenditure – Classification, Effects and Canons of Public Expenditure, Public Debt, External and Internal Debt. Methods of Debt Redemption. Capital Levy, Deficit Financing.
5. Administration, Budget- Its Preparation, Legislation and Execution.
6. Analysis of Trends in Central Government's Revenue, Expenditure and Debt. Financing of Five Year Plans, Deficit Financing in India.

7. State and Local Finance, Heads of Revenue and Items of Expenditure and Related Issues.

Business Law

Main Principles of Indian Law Relating to:

1. Contract
2. Agency, Sale of Goods
3. Partnership, Negotiable Instruments and Hundis and Consumer Protection Act 1986
4. Common Carriers and Carriage of Goods of Land and Air. Foreign Exchange Management Act. 2000: Definitions & Main Provisions.

Cost Accounting

1. Definition, Nature, Scope and Significance, Cost Unit, Cost Centre, Elements of Costs, System of Ascertainment of Cost, Control and Ascertainment of Materials, Labor and Overhead Costs, Allocation, Apportionment and Absorption of Overheads.
2. Single Output or Unit Costing, Contract and Job Costing, Calculation of Tender, Quotation, Estimated Price, Process and Operating Costing.
3. Marginal Costing – its use in Management Standard Costing, Variance Analysis.
4. Integrated Accounts.
5. Reconciliation of Cost and Financial Accounts, Cost Accounting/ Cost Control Accounts, Interfirm Comparison.

Company law and Secretarial Practice

1. Company: Definition, Classification, Incorporation, Memorandum of Association, Articles of Association. Doctrine of Constructive Notice, Doctrine of Indoor Management, Commencement of Business. Company Management: Appointment, Rights and Obligations of Directors, Managers and Secretary.
2. Steps before Issue of Prospects, Definition and Contents of Prospectus, Liability for Untrue Statements. Shares: Definition, Share Vs Stock, Classes of Shares, Voting Rights, Issue of Shares at Par, Premium and Discount, ESOP, Bonus, Rights, Buyback, Public Shares at Par, Premium and Discount, ESOP, Bonus, Rights, Buyback, Public Issue, Calls, Forfeiture, Lien and Surrender, Transfer and Transmission, Statutory Restriction on Transfer, Borrowing Power, Mortgages and Changes, Debentures.
3. Secretarial Practice: Duties and Responsibilities of Company Secretary, Secretarial Duties Relating to Issue and Allotment of Shares, Calls, For Feature Lien and Transfer of Shares. Majority Powers and Minority Rights, Revelation of Oppression and Management. Specimen of Certificate of Incorporation. Certificate of Commencement of Business, Share Certificates and Share Warrants, Dematerialization of Shares.
4. Meeting and Proceedings: Provisions Relating to the Company and Board Meetings, Secretarial Duties Relating to Meetings, Notice, Agenda, Proxy, Motion, Resolution, Minutes and Reports.

Selling and Advertising

1. Selling: Concept, Nature and Role in Marketing. Personal Selling: Evolving Face of Personal Selling, Nature and Importance of Personal Selling, Characteristics of a Successful Salesperson, Sales as a Career Option, Sales Training, Consumer Psychology and Buying Motives, Selling of Consumer and Industrial Products (Goods and Services)
2. Selling Process: Prospecting, Pre-approach, Approach, Sales Presentation and Demonstration, Handling Objections, Closing the Sale, After Sale Service. Effective Selling Techniques, Role of Relationship Marketing in Personal Selling, Tools of Selling, Motivating and Remunerating Sales Persons.
3. Advertising: Concept, role, functions, scope and types, Economic, Social, Legal and Ethical aspects of Advertising. Advertising Appeals: Meaning, types and methods, Advertising as a persuasive communication process. Advertising Design: Characteristics and basic elements of Advertising copy. Creation, Production and Planning of Advertisements.
4. Advertising Budget: Types, Components and Process of Preparing. Advertising Agency: Functions and Selection of Agency.
5. Advertising as a Component of Integrated Marketing Communication, AIDA and DAGMAR Model. Advertising Media: Types (Print, Outdoor, Electronic and Other), Characteristics, Merits and Limitations of Each Media Type. Media Planning: Selection of Media Category; their Reach, Frequency, Impact, Cost and Other Factors Influencing Media Choice. Problems in Reaching Rural and Remote Audience. Evaluation of Advertising Effectiveness: Importance, Difficulties and Methods of Measuring Advertising Effectiveness.

Business Mathematics

1. Calculus: (Problems and Theorems Involving Trigonometrically Ratios are not to be done) Differentiation: Partial Derivatives up to Second Order; Total Differentials. Maxima and Minima Cases of one Variable Involving Second or Higher Order; Cases of two Variables Involving not more than One Constraint, Integration as Anti-derivative Process; Standard Forms; Methods of Integrating –by Substitution, by parts, and by use of Partial Functions; Definite Integrating; Finding Areas in Simple Cases.
2. Matrices and Determinants: Definition of a Matrix, Types of Matrices; Algebra of Matrices; Properties of Determinants; Calculation of Values of Determinants upto Third Order, Adjoint a Matrix; Elementary Row or Column Operations; Finding Inverse of Matrix through Adjoint and Elementary Row and Column Operations; Solution of a System of Linear Equations having Unique Solution and Involving not more than three Variables.
3. Linear Programming – Formulation of LPP: Graphical Method of Solution; Problems Relating to two Variables Including the Case of Mixed Constraints; Simplex Method – Solution of Problems up to three Variables, Duality, Transportation Problem.
4. Compound Interest and Annuities Certain, Different Types of Interest Rates; Concept of Present Value and Amount of a Sum; Equation of Payments, Types of Annuities; Present Value and Amount of an Annuity, Including the Case of Continuous Compounding; Analysis of Annuity; Valuation of Simple Loans and Debentures; Problems Relating to Sinking Funds

Insurance Law and Accounts

1. Introduction to Insurance: Purpose and Need of Insurance, Insurance as a Social Security Tool; Insurance and Economic Development, Fundamentals/ Principles of Insurance. Contract of Insurance.

2. Life Insurance – Principles and Practice of Life Assurance. Life Assurance Contract, their Nature and Characteristics, Parties to the Contract and their Rights and Duties. Conditions and terms of Policy. Nominations and Assignment Practice in Connection with Collection of Premium, Revivals, Loans, Surrenders, Claims, Bonuses and Annuity Payments, Mortality Table.
3. Fire Insurance - The Basic Principles of Fire Insurance Contracts. Fire Policy, Conditions, Assignment of Policy, Claims. Marine Insurance – General Principles – Insurable Interest and Value Disclosure Marine Policy and their Conditions, Premium Double Insurance: Assignment of Policy Warranties the Voyage, Loss and Abandonment: Partial Losses and Particular Charges; Salvage; Total Losses and measures of indemnity, Subrogation equation of payments, types of annuities; Present Value and Amount of an Annuity, Including the Case of Continuous Compounding; Analysis of Annuity; Valuation of Simple Loans and Debentures; Problems Relating to Sinking Funds.

Insurance Law and Accounts

1. Introduction to Insurance: Purpose and Need of Insurance, Insurance as a social security tool; Insurance and economic development, Fundamentals/ Principles of Insurance. Contract of Insurance. Life Insurance – Principles and practice of life assurance. Life assurance contract, their nature and characteristics, Parties to the contract and their rights and duties. Conditions and terms of policy. Nominations and Assignment Practice in connection with collection of premium, revivals, loans, surrenders, claims, bonuses and annuity payments, Mortality Table.
2. Fire Insurance - The basic principles of Fire Insurance contracts. Fire Policy, conditions, Assignment of Policy, Claims. Marine Insurance – General Principles – Insurable interest and value disclosure Marine Policy and their conditions, Premium double insurance: assignment of policy warranties the voyage, Loss and abandonment: partial losses and particular charges; salvage; total losses and measures of indemnity, Subrogation.
3. Insurance Intermediaries – Agents and Procedure for Becoming and Agent: Pre-Requisite for Obtaining a License: Duration of License; Cancellation of License, Revocation of Suspension/ Termination of Agent Appointment; Code of Conduct; Unfair Practices, Insurance Accounts – Life Insurance and General Insurance Company.

Income Tax Law and Accounts

1. Basic Concepts: Income, Agricultural Income, Casual Income, Assessment Year Previous Year, Gross Total Income, Total Income Person. Tax Evasion, Avoidance and Tax Planning. Basic of Charge; Scope of Total Income, Residence and Tax Liability, Income which does not form Part of Total Income. Deduction from Gross Total Income.
2. Head of the Income: Salaries; Income from House Property; Profit and Gains to Business or Profession. Capital Gains; Income from Other Sources.
3. Computations of Total Income of an Individual, H.U.F and Firm.
4. Deemed Income: Aggregation of Income, Set-off and Carry Forward of Losses; Tax Authorities; Assessment Procedures.

Contemporary Audit

1. Introduction: Meaning and objectives of Auditing: Types of Audits; Internal Audit. Audit Process: Audit Programmed; Audit and Books; Working Papers and Evidences; Consideration for

Commencing an Audit; Routine Checking and Test Checking. Internal Check System: Internal Control.

2. Audit Procedure: Vouching; Verification of Assets and Liabilities. Audit of Limited Companies: Company Auditor- Appointment, Powers, Duties, and Liabilities.
3. Auditing Standards – Appointment, Power, Duties and Liability of Auditor. Broad Outlines of Company Audit and Auditor's Report. Special Audit – Banking Companies, Educational Institutions, Insurance Companies. Investigation, Audit of Non-profit Organization, Divisible Profit & Dividend.
4. Recent Trends in Auditing – Nature and Significance of Cost Audit; Tax Audit, Management Audit, Computerized Audit.

Indian Economic Structure

1. Nature of Indian Economy, Features of a Developing Economy. Characteristics and Problems of Indian Economy. Objectives of Economics Planning in India. India's Five-Year Plans – Achievements and Failures. Indian Agriculture – Its Features and Problems. Agricultural Development in Planned Era. Green Revolution, Agricultural Marketing, Rural Poverty and Indebtedness. Rural Industrialization. Rural Development Programmed, Cooperative Movement.
2. Population Growth and Population Explosion. Population Policy and Programmed. Problem of Unemployment. Forms of Unemployment. Employment Programmed and Poverty Alleviation.
3. Large Scale, Small Scale and Cottage Industries. Industrial Development during Five Year Plans. Public Sectors and Private Sector, Industrial Relations, Industrial Policy. Industrial Sickness, Industrial Finance. Money Market and Capital Market Structure. Capital Formation, Indian Money Market and Fiscal Policies, Deficit Financing and its Implications.

Marketing, Practice and Finance

1. Introduction: Nature and Scope of Marketing: Importance of Marketing as a Business Function and in the Economy; Marketing Concepts- Traditional and Modern; Selling Vs. Marketing; Marketing mix; Marketing Environment.
2. Consumer Behavior and Market Segmentation; Nature, Scope and Significance of Consumer Behavior; Market Segmentation Concept and Importance; Basis for Market Segmentation.
3. Promotion; Methods of promotion; Optimum promotion mix; Advertising Media – their Relative Merits and Limitations; Characteristics of an Effective Advertisement; Personal Selling; Selling as a Career; Classification of a Successful Sales Person; Functions of Salesman.
4. Product: Concept of Product, Consumer and Industrial Goods; Product Planning and Development; Packaging – Role and Functions; Brand name and Trade Mark; after Sales Service; Product Life Cycle Concept. Price: Importance of Price in the Marketing mix; Factors Affecting Price of a Product / Service; Discounts and Rebates.
5. Distribution Channels – Concept and Role; Types of Distribution Channels; Factors Affecting Choice of a Distribution Channel; Retailer and Wholesale; Physical Distribution of Goods; Transportation; Warehousing; Inventory Control; Order Processing.

Macro- Economics

1. Concept – Definition and Scope of Macro-Economics, Statics and Dynamics, The Circular Flow of

Income. The Analysis and Measurement of Economic Activity – National Income Accounting – Concept and Definitions of National Income. Various Component of National Income, Methods of Measurement of National Income and Welfare.

2. The consumption function – The Keynesian Consumption Function, Relative Income Hypothesis, Permanent Income Hypothesis Multiplier and the Process of Income – Propagation. The Investment Function – Autonomous and Induced Investment. Government and the Theory of Income Determination – Government Purchases and Income, Taxes and Equilibrium Level of Income, Tax Multiplier Determination of the Equilibrium Level of Income – The Simple Keynesian Model.
3. Marginal Efficiency of Capital, Relation between MEC and MEI. The Derivation and Shift in IS and LM Curves, the Interaction between IS and LM Curves. The Acceleration Principle. Theories of Employment – Say's Law of Market and Classical Theory of Employment, Saving Investment Analysis. An Outline of Keynesian Theory of Employment.
4. Theory of Inflation – Concepts of Inflation, Inflationary Gaps Demand Pull and Cost Push Inflation. The Philips Curve, Effects of Inflation, Anti-Inflation Policies – Monetary and Fiscal Policies. Fluctuation and Growth – Hawtrey, Hayek, Schumpeter, Samuelson, Hicks. Theories of Population – Malthusian Theory and Theory of Optimum Population.

Trade of India

1. Introduction – Trade its meaning and types. Difference between Internal and International Trade. Theories of International Trade with Particular reference to the Theory of Comparative Cost. Trade: Terminology and Abbreviations. India's Internal Trade - Characteristics and Problems. Coastal Trade and Trade of Uttar Pradesh.
2. Foreign Trade of India – Brief History before Independence Recent Trends in India's Foreign Trade. Composition of Imports and Exports – Changes during Planning Period. Important Items of Imports and Exports.
3. Direction of India's Foreign Trade – Changes in Directional Pattern during Planning Period. India's Major Trading Partners. State Trading Organizations, Financing of India's Foreign Trade Role of EXIM, Bank ECGC and other Institutions in Financing of Foreign Trade, STC, MMTC.
4. Trade Policy in India – General Developments during Planning Period. Import Substitution and Export Promotion. Recent Changes in Trade Policy, Trade Agreements – Bilateral and Multilateral Trade Agreements. GATT & UNCTAD. India's Balance of Trade and Balance of Payments – Trends during Planning Period. Problems of Bot, BOP and Corrective Measures.

Applied & Business Statistics

1. Statistical System in India- Indian Statistical Machinery – Organization at Central State Level, National Sample Survey – Design and Technique. Agricultural Statistics in India – Nature of Crop Estimates, Estimation of Area and Yield, Industrial Statistics, Annual Survey of Industries. Statistics of Prices, Wage, Trade and Transport.
2. Population Statistics – Vital Statistics, Computation of Birth, Death and Survival Rates. Methods of Population Projection. Population Census in India.
3. Analysis of Time Series – Trend Measurement Different Method of Computing Seasonal Indices. Cyclical and Irregular-Fluctuations.

4. National Income Statistics: Methods of Measuring National Income and Related Aggregates. Statistical Quality Control Construction and uses of Control Charts.

Law and Practice of Banking

1. The Ordinary, Practice of Bankers with Regard to the Opening and Conduct of Banking Accounts, Closing of Accounts. Banker and Customer – General and Special Relations.
2. Law Relating to Cheques, Bill of Exchange and other Negotiable Instruments. Discounting of Bill of Exchange, the Practice relating to Cheques Bills of Exchange and Other Negotiable Instruments.
3. Banker's Credit, Advance and Overdrafts Traveler Cheque, Letter of Credit, Confirmed Bankers Credit, Unconfirmed Bankers Credit, Acceptance Credits and Documentary Credit.
4. Revolving Credit, Banker's Advance against Marketable Securities, Goods & Produce, Debentures and Life Insurance Policies. Unsecured Advances – Guarantees, Precautions/ Duties of Banker.

Development Banking

1. Meaning, Determinant and Obstacles of Economic Development, Sources and Problems of Rural and Industrial Finance.
2. Meaning Objective, Characteristics and Functioning of Development Banks, Difference between Commercial and Development Banks.
3. Role of Commercial Banks in Agricultural and Industrial Finance. Terms Lending Operations of Land Development Banks.
4. National Bank for Agricultural and Rural Development (NABARD) – Objectives Organisation and Functions.
5. Structure of Development Banks in India, Progress of these Banks (terms lending institutions) and Deficiencies in their Working.
6. National Level Financial Corporation – IFCI, IDBI, ICICI & IRBI – their Objectives Functions and Evaluations of Performance.
7. State level Financial Corporation – SFCs and SIDCs – their Objectives Organizations, Functions and Evaluations of Performance.
8. Capital Market in India & Industrial Growth – Structure, Present Position, Problems and Step taken by the Government to Active and Capital Market.

Quantitative Economics

1. **Economics of a Firm** – Applications of Differential Calculus, Cost Minimization, Profit Maximization, Price – Quantity Determination, Elementary Partial Differentiation and Economic Application, Partial Elasticities, Elementary Integral Calculus and Economics Applications.
2. Linear Programming – Meaning, Application, Limitation Simple Formulation, Graphic Method, Simplex Method Duality.
3. Games theory – Classifying Pay off Matrix, Principle of Dominance, Strategy – Pure Strategy and mixed Strategies – 2×2 , $2 \times n$ Games.
4. Decision Theory Decision Making Under Risk, Decision Making Under Inconstant- Maximum

Commerce (COQP08)

Criterion, Maximax Criterion, Hurvics, Criterion Savage Criterion, Laplace Criterion Inventory Economics – Inventory Costs, Various Inventory Models – EOQ with Uniform Demand, Production Inventory Model, Back-order Inventory Model Inventory Model with Quantity Discount, Price Break Approach, Re-order point Safety Stock and Stock-outs, Determining Optimum Safety Stock Levels, ABC Analysis.

5. Input- Output Analysis – Meaning Assumption Viability of System, Technological Co-efficient Closed & Open Economy, Determination of Out-put Labor Requirement Price Equilibrium and Value Added.
6. Query Problems – Query Discipline Formulae for Solving Single-channel Quiring Problems.

**Syllabus
for
General Paper (MBA etc)
(COQP12)**

Note:

- i. The Question Paper which will have 75 questions.*
- ii. All questions will be based on Subject-Specific Knowledge.*
- iii. All questions are compulsory.*
- iv. The Questions will be Bilingual (English/Hindi).*

General Paper (MBA etc) (COQP12)

1 English/Comprehension

English Grammar

English Usage Errors

Jumbled Para

Sentence Correction

Sentence Improvement

Reading Comprehension

Paragraph Completion

One-word Substitution

Synonyms & Antonyms

Idioms & Phrases

हिन्दी पाठ बोधन (Comprehension)

हिन्दी व्याकरण

अशुद्ध प्रयोग

परिच्छेद का उचित क्रम

वाक्य शुद्धि

वाक्य परिष्कार

पाठ बोधन

वाक्य की पूर्णता

अनेक शब्द के लिये एक शब्द

समानार्थी एवं विलोम

मुहावरे एवं कहावते

2 Maths/Quantitative Ability

Partnership

Simple Interest and Compound Interest

Profit & Loss

Percentages

Pipes and Cisterns

Time-Speed-Distance

Problems on Train

Work and Wages

Time and Work

3. Logical Reasoning

Ranking Tests

Linear

Arrangements

Matrix Arrangements

Sequencing

Statements Arguments

Cause and Effects

Statements Assumptions

Statements and Conclusion

Number Series

Blood Relationship Tests

Coding and Decoding

Inferences

Non-Verbal Reasoning

Analogy Test

Symbol Based Problems

Direction and Distance Test

4. Data Interpretation

Pie Charts

Line Charts

Bar Graphs

Tabular Charts

Mixed Graphs

Data Sufficiency

Graph Number Systems

Tabulation

Sets and Venn Diagrams