

**SYLLABUS**  
**[100 Marks: 100 Questions]**

**Test of Reasoning [25 Marks: 25 Questions]**

**Logical Reasoning**

- Statement and Conclusion: Evaluating the logical validity of conclusions drawn from given statements.
- Statement and Assumptions: Identifying the underlying assumptions in given statements.
- Statement and Arguments: Assessing the strength and relevance of arguments based on given statements.
- Statement and Course of Action: Determining the most appropriate course of action based on given statements.
- Cause and Effect: Identifying causal relationships between events or actions.
- Analytical Decision Making: Applying logical reasoning to make sound decisions in complex scenarios.

**Seating Arrangement**

- Circular Arrangement: Solving seating arrangement problems in a circular layout.
- Linear Arrangement (Single and Double Rows): Tackling seating arrangement questions in single or double row formats.
- Square and Rectangular Arrangements: Dealing with seating arrangements in square or rectangular configurations.
- Floor Puzzles: Solving puzzles involving the arrangement of people or objects on different floors of a building.
- Box-Based Puzzles: Cracking arrangement puzzles involving the placement of items in boxes.

**Puzzles**

- Scheduling Puzzles: Resolving puzzles related to scheduling events, meetings, or tasks.
- Blood Relations-Based Puzzles: Unraveling puzzles involving familial relationships.
- Ranking and Order Puzzles: Solving puzzles that involve ranking or ordering of items based on given conditions.
- Age-Based Puzzles: Tackling puzzles that revolve around the ages of individuals and their relationships.
- Day/Month-Based Puzzles: Cracking puzzles that involve days of the week or months of the year.

## **Blood Relations**

- Family Tree and Relationship Chains: Understanding and solving problems based on family trees and extended relationships.
- Coded Relationships: Deciphering coded representations of familial relationships.

## **Syllogisms**

- Categorical Syllogisms: Drawing valid conclusions from categorical propositions using logical reasoning.
- Advanced Syllogisms (Reverse Syllogisms): Solving complex syllogisms that require reverse reasoning.
- Venn Diagram Applications in Syllogisms: Utilizing Venn diagrams to solve syllogistic reasoning problems.

## **Coding-Decoding**

- Alphanumeric Coding: Cracking codes that involve a combination of letters and numbers.
- Letter Coding: Deciphering codes that involve the substitution or rearrangement of letters.
- Number Coding: Solving codes that are based on numerical patterns or operations.
- Symbol-Based Coding: Breaking codes that use symbols or special characters.

## **Direction Sense Test**

- Cardinal Directions (North, South, East, West): Solving problems involving basic cardinal directions.
- Complex Directions with Turning and Distances: Tackling direction sense questions that involve turns and specific distances.

## ***Quantitative Aptitude [25 Marks: 25 Questions]***

### **Data Interpretation**

- Tabular Data Interpretation: Analyzing and drawing conclusions from data presented in tabular format.
- Line Graph: Interpreting trends, patterns, and relationships depicted in line graphs.
- Bar Graph: Comparing and contrasting data represented in bar graphs.
- Pie Chart: Calculating proportions, percentages, and values based on pie chart data.
- Caselets: Solving data interpretation problems that involve a combination of text and numerical data.
- Mixed Graphs: Handling questions that require the interpretation of multiple types of graphs simultaneously.
- Radar Graph (Spider Web): Interpreting less common graph types like radar or spider web graphs.

### **Number Series**

- Missing Number Series: Identifying the pattern and determining the missing term(s) in a given number series.
- Wrong Number Series: Spotting the term that violates the pattern in a given number series.

## **Simplification and Approximation**

- Simplification: Applying basic mathematical operations to simplify complex expressions.
- Approximation: Estimating values or choosing the closest answer based on given data.

## **Quadratic Equations**

- Solving Quadratic Equations: Finding the roots or solutions of quadratic equations.
- Comparing Quadratic Equations: Determining the relationship between the roots of two quadratic equations.

## **Data Sufficiency**

- Assessing the sufficiency of given statements to answer a question.
- Determining whether additional information is required to solve a problem.

## **Arithmetic Topics**

- Percentages: Calculating percentages, percentage changes, and applying percentages in various scenarios.
- Ratio and Proportion: Solving problems involving direct and inverse proportions.
- Average: Calculating arithmetic mean, weighted average, and other types of averages.
- Simple Interest and Compound Interest: Computing interest earned or paid over time.
- Profit and Loss: Determining gains, losses, and discounts in business transactions.
- Time and Work: Solving problems related to work efficiency, completion time, and combined efforts.
- Time, Speed, and Distance: Applying formulas to calculate speed, distance, or time in various contexts, including trains and boats.
- Mixtures and Alligations: Solving problems involving the mixing of ingredients or solutions.
- Mensuration: Calculating areas, volumes, and perimeters of geometric shapes.
- Partnerships: Determining the distribution of profits or losses among partners based on their investments.
- Probability: Calculating the likelihood of events occurring and solving basic probability problems.
- Permutation and Combination: Solving problems related to the arrangement or selection of objects.

## **Mathematical Inequalities**

- Comparing quantities using symbols like  $>$ ,  $<$ ,  $\geq$ , and  $\leq$ .
- Solving problems that involve inequalities and determining the relationship between values.

## **Miscellaneous Word Problems**

- Applying mathematical concepts to solve real-life problems presented in the form of word problems.
- Demonstrating a conceptual understanding of various arithmetic topics through problem-solving.

## General Awareness [25 Marks: 25 Questions]

### **Current Affairs**

- Recent events of national and international significance.
- Awards and Honors: Major awards such as Padma Awards, Nobel Prizes, and others.
- Sports: Significant tournaments, winners, records, and achievements in various sports.
- Government schemes and policies: Important initiatives launched by the government.
- Important Summits and Conferences: Key meetings and conferences at national and international levels.
- Economic and Banking Awareness: Recent developments and trends in the banking and financial sectors.
- Important Days and Themes: Observance of significant days and associated themes.

### **Indian History**

- Ancient History: Major civilizations (Indus Valley), periods (Vedic), and empires (Maurya and Gupta).
- Medieval History: Key dynasties (Delhi Sultanate and Mughal Empire) and religious movements (Bhakti and Sufi).
- Modern History: Significant events during British rule, the Indian National Movement, and the journey towards Independence.

### **Geography**

- Physical Geography: Understanding landforms, atmosphere, climate, and natural vegetation.
- Indian Geography: Major rivers, mountains, plateaus, deserts, soil types, and forest regions in India.
- World Geography: Familiarity with continents, countries, capitals, and prominent physical features.

### **Indian Polity and Constitution**

- Constitutional Framework: Understanding the Preamble, Fundamental Rights and Duties, and Directive Principles of State Policy.
- Union and State Government: Structure, roles, and functions of the Executive, Legislature, and Judiciary at the central and state levels.
- Important Amendments and Articles: Significant constitutional amendments and articles that have shaped India's governance.
- Political System: Awareness of the Panchayati Raj system, Election Commission, and local governance bodies.

### **Economics and Finance**

- Basic Concepts: Understanding microeconomics, macroeconomics, demand and supply, and national income.
- Indian Economy: Knowledge of economic reforms, planning in India, and important economic terminology.
- Banking and Finance: Familiarity with the role of the Reserve Bank of India (RBI), money market, inflation, and economic policies.
- Budget and Fiscal Policies: Key points from the Union Budget and Economic Surveys.

## Science and Technology

- Biology: Understanding the human body, health and diseases, and important biological terms.
- Chemistry: Basic knowledge of elements, compounds, acids, bases, metals, and non-metals.
- Physics: Familiarity with laws of motion, work and energy, heat, light, sound, electricity, and magnetism.
- Computer Awareness: Basic terminology, networking, internet, hardware, and software concepts.
- Inventions and Discoveries: Awareness of key scientific and technological developments.

## Environment and Ecology

- Ecological Concepts: Understanding biodiversity, conservation, ecosystems, and food chains.
- Environmental Issues: Knowledge of pollution, climate change, global warming, and renewable and non-renewable resources.
- Important Organizations and Conventions: Awareness of UNEP, Kyoto Protocol, Paris Agreement, and other environmental initiatives.

## General Knowledge

- Important Dams, Rivers, and National Parks: Familiarity with significant geographical features and protected areas.
- Important Organizations: Knowledge of the United Nations (UN), World Health Organization (WHO), World Trade Organization (WTO), International Monetary Fund (IMF), and World Bank.
- Space Research: Awareness of recent developments and missions by ISRO, NASA, and other space agencies.

## English Language [25 Marks: 25 Questions]

### Reading Comprehension

- Passage Comprehension: Answering questions based on the main ideas, themes, and details of a given passage.
- Inference-based Questions: Drawing conclusions or making inferences based on the information provided in the passage.
- Vocabulary Questions: Identifying synonyms and antonyms of words used in the passage.
- Tone of the Passage: Determining the overall tone or attitude conveyed by the author in the passage.

### Grammar and Vocabulary

- Error Spotting: Identifying grammatical errors in given sentences.
- Sentence Correction: Rectifying grammatically incorrect sentences to make them correct.
- Fill in the Blanks: Choosing the most appropriate words to complete sentences with single or double blanks.
- Cloze Test: Filling in blanks in a passage with the most suitable words based on context and grammar.
- Phrase Replacement: Replacing phrases in sentences to improve clarity, conciseness, or grammatical accuracy.

## **Sentence Rearrangement (Para Jumbles)**

- Arranging jumbled sentences in the correct order to form a coherent and logical paragraph.
- Identifying the most suitable opening and closing sentences among a set of jumbled sentences.

## **Synonyms and Antonyms**

- Questions based on commonly used synonyms and antonyms to test vocabulary knowledge.
- Word replacement questions that require choosing the most appropriate synonym or antonym.

## **Idioms and Phrases**

- Understanding the meaning and usage of commonly used idioms and phrases.
- Questions based on the correct usage of idioms and phrases in sentences.

## **Word Association and Usage**

- Word Pairing: Identifying the relationship or connection between pairs of words.
- Homonyms and Homophones: Distinguishing between words that sound similar but have different meanings or spellings.
- Spell Check: Identifying and correcting misspelled words in a given context.

## **Sentence Completion and Paragraph Completion**

- Choosing the most suitable sentence or word to complete a paragraph logically and coherently.
- Filling in gaps in sentences to create grammatically correct and meaningful statements.

## **Verbal Ability**

- Questions that assess verbal reasoning and critical thinking skills.
- Evaluating the meaning, implications, and logical progression of sentences and paragraphs.