

Paper- I: Research Methodology & General Aptitude
(Common for All Streams)

This paper is divided into ten sections (Comprising of 50 questions in total), there will be 5 questions relating to each of these 10 sections.

Section I: Research Aptitude

- Research: Meaning, Characteristics and types
- Steps of Research
- Methods of Research
- Paper, article, workshop, seminar, conference and symposium

Section II: Reading Comprehension

Two passages one of which will be in English having three questions and other one will be in Hindi having two questions, thereby with a total of 5 questions to be answered.

Section III: Reasoning (Including Mathematical)

- Number series; letter series; codes
- Relationships; classification

Section IV: Logical Reasoning

- Understanding the structure of arguments
- Evaluating and distinguishing deductive and inductive reasoning
- Verbal analogies: Word analogy- Applied analogy
- Verbal Classification
- Reasoning logical diagrams: Simple diagrammatic relationship, Multidiagrammatic Relationship

Section V: Data Interpretation

- Sources, acquisition and interpretation of data.
- Quantitative and qualitative data
- Graphical representation and mapping of data

Section VI: Information and Communication Technology (ICT)

- ICT: meaning, advantages, disadvantages and uses
- General abbreviation and terminology
- Basics of internet and e-mailing

Section VII: Science Awareness

- General awareness
- Elementary level understanding
- Modern scientific and technological developments
- Interface with society

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Section VIII: People and Environment

- People and environment interaction
- Sources of pollution
- Pollutants and their impact on human life, exploitation of natural and energy resources
- Natural hazards and mitigation

Section IX: Teaching Aptitude

- Teaching: Nature, objectives, characteristics and basic requirements
- Learner's characteristics
- Factors affecting teaching
- Methods of teaching
- Teaching aid
- Evaluation systems

Section X: Higher Education System

- Structure of the institutions for higher learning and research in India
- Formal and distance education
- Professional/technical and general education
- Institutions and their interactions

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