

The Maharaja Sayajirao University of Baroda, Vadodara
Ph. D Entrance Test (PET Examination)

PAPER-I

SYLLABUS

PET EXAM CODE : 00

Note : Paper I will cover the 60 multiple choice questions of 1 mark each out of which 50 questions are compulsory.

SUB: GENERAL PAPER ON TEACHING AND RESEARCH APTITUDE

I. Teaching Aptitude

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

II. Research Aptitude

- Research : Meaning, characteristics and types;
- Steps of research;
- Methods of research;
- Research Ethics;
- Paper, article, workshop, seminar, conference and symposium;
- Thesis writing: its characteristics and format.

III. Reading comprehension

- A passage to be set with questions to be answered

IV. Communication

- Communication: Nature, characteristics, types, barriers and effective classroom communication.

V. Reasoning (Including Mathematical)

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

VI. 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, multi-diagrammatic relationship;
- Venn diagram; Analytical Reasoning.

VII. Data Interpretation

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

VIII. Information and Communication Technology(ICT)

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

IX. 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.

X. Higher Education System: Governance, Polity and Administration

- Structure of the institutions for higher learning and research in India; formal and distance education; professional/technical and general education; value education: governance; polity and administration; concept, institutions and their interactions.