

Research Methodology

Syllabus & Sample Questions for Entrance Test

1. Required (Compulsory) Topics

- **Overview of Research:**

Meaning, purpose, significance of ethical conduct in research, Classification of Research based on its purpose (Basic, Applied, Evaluation and Action Research)

- **Scientific Thinking:**

Types of reasoning, Critical Thinking, Importance of existing knowledgebase (research literature)

- **Elements of Research:**

Concepts, Constructs, Definitions – Theoretical and Operational, Theory, Literature Review and its importance, Models, research questions and objectives, research design and methodology.

2. Topics with a Choice (Elective)

- **Quantitative Research Methods:**

Variables, Conjecture, Hypothesis, Measurement, Types of data and scales, Sample, Sampling techniques, Probability, Probability Distributions, Hypothesis Testing, Level of Significance and Confidence Interval, t-test, ANOVA, Correlation, Regression Analysis

OR

- **Qualitative Research Method:**

Types of approaches – Narrative, phenomenological, grounded theory, ethnographic, case study, sampling techniques; postmodernism; etic and emic; triangulation; approaches to analysis of qualitative data – coding, qualitative content analysis, thematic analysis; interviewing; focus groups

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Sample Questions:

- I. Purpose of conducting a literature review is:
- a) Satisfaction of the Researcher that s/he is on right track
 - b) To enhance credibility as researcher is in sync with predecessors
 - c) To reduce accountability as the researcher gives credit & disowns the quote
 - d) To help readers in reading further details from the quoted work
- II. Which of the following is not a non-probabilistic sampling method?
- e) Quota
 - f) Judgment
 - g) Snowball
 - h) Systematic
- III. Which of the following is not an appropriate source of data for qualitative research:
- a) interviews
 - b) experiments
 - c) historical documents
 - d) observations