

Devi Ahilya University, Indore

Syllabus for Ph.D. Entrance Exam (DET) 2021-22

Faculty: Engineering

PART A: Research Methodology

Data Interpretation:

Bar charts - Simple, Stacked, Composite Bar charts, Caselets & Tables, Data Analysis, Data comparison from Table, Graphs, Line Graphs, Data Sufficiency, Pie charts.

Quantitative Ability:

Simplifications, Number system, Averages, Ratio & Proportion, LCM and HCF, Percentages, Profit and Loss, Interest (Simple and Compound), Speed, Time and Distance, Area, Time and Work, Number System, Progressions, Permutation and Combination, Algebra, Basic Probability.

Logical Reasoning:

Analogy, Classification, Series, Coding-Decoding, Direction Sense, Mathematical Operations, Arithmetical Reasoning, Inserting the Missing Character, Number, Ranking and Time Sequence Test, Eligibility Test, Representation through Venn-diagrams, Number & symbols ordering, Comprehension questions, Statement & assumptions, Statement & conclusions, Statement & actions.

Research Aptitude:

Data, Measures of Central Tendency, Dispersion: Standard Deviation, Correlation and Simple Regression, Meaning, types & Characteristics of Research. Research Ethics, Mean, Median and Mode.

General Knowledge & Awareness:

Current Affairs, Books and Authors, Famous Personalities, music, Awards, Sports, Indian Politics, Geography, Indian History, Science and Technology & Inventions.