

Syllabus for Ph.D. Entrance Test

BASIC AWARENESS AND APTITUDE ON RESEARCH (Compulsory for All -50 MARKS)

- Concept of Research: Meaning, Characteristics, Need, Steps of the process.
- Selection of the problem: Source, Criteria
- Reviewing Related Literature: Epistemological Aspects, Past Researches
- Quantitative & Qualitative Research: Meaning, Difference, Characteristics, Steps of the Process.
- Methodology: Variables, Hypothesis, Tool, Sample, Methods (Survey, Case study & experimental)
- Treatment of Data
- Deriving Conclusions
- Report Writing.

Mathematics (50 MARKS)

- Analysis
- Linear Algebra
- Complex Analysis
- Algebra
- Ordinary Differential Equations (ODEs):
- Partial Differential Equations (PDEs):
- Numerical Analysis :
- Calculus of Variations:
- Linear Integral Equations:
- Classical Mechanics:
- Descriptive statistics, exploratory data analysis.
- Linear programming problem

Business Management & Commerce (50 Marks)

- Managerial Economics
- Organizational Behavior
- Human Resource Management
- Financial Management
- Marketing
- Production Management
- Advance Statistics & MIS
- Corporate Strategy
- Entrepreneurship
- Business Ethics