

Ph. D. Entrance Examination

Syllabus: Research Methodology

Subject: PH.D IN COMMERCE / ACCOUNTANCY / STATISTICS / ECONOMICS / BANKING -

Introduction to Research: Meaning and importance of Research, Types of Research, Research Design and Stages, Selection and Formulation of Research Problem, Objective(s), Meaning and Types of Hypotheses, Formulation of Hypotheses, Research Plan –Exploration, Description, Diagnosis, Experimentation, Determining Experimental and Sample Design.

Data Collection: Sources of Data –Primary and Secondary, Types of Data –Categorical (nominal and ordinal), Numerical (discrete, continuous, ratio and interval)

Methods of Data Collection: Survey, Interviews, Focus Group Discussion (FGD), Observation, Records or Experimental Observations.

Data Processing and Analysis: Data Processing and Analysis strategies-Graphical representation –Descriptive Analysis –Inferential Analysis-Correlation analysis, and testing of Hypothesis

Statistical Graphics –Histograms, Frequency Polygon, Dotplots, Stemplots, Bar Graphs, Pareto Charts, Pie Charts, Scatterplots, Boxplots

Descriptive Analysis –Frequency Distributions, Measures of Central Tendency, Measures of Variation/Dispersion, Skewness and Kurtosis, Measures of Relative Standing Qualitative Approaches Including Grounded Theory, Ethnography, Narrative Inquiry, Phenomenology and Case-Study.

Scientific Writing: Structure and Components of Scientific Reports –Types of Report – Technical Reports and Thesis –Significance –Different steps in the preparation –Layout, Structure and Language of Typical Reports–Illustrations and Tables –Bibliography, Referencing and Foot Notes. Preparation of the Project Proposal–Title, Abstract, Introduction –Rationale, Objectives, Methodology –Time frame and Work Plan –Budget and Justification –References.

Research Ethics: Research Ethics Committees/Institutional Review Board –Roles and Importance Intellectual Property rights–Commercialization, Royalty Reproduction of Published Material –Citation and Acknowledgement, Plagiarism