

PRE-Ph. D. COURSES OF STUDY IN EDUCATION

Paper-I Advanced Methods of Educational Research

100 marks (5×20)

Unit I: Type of Educational Research

❖ Quantitative

- Historical Philosophical Developmental Descriptive Casual Comparative Correlational Experimental (Weak, true and quasi-experimental, and Action Research)

❖ Qualitative

- Phenomenology, Ethnography. Case Study Grounded Theory Narrative Analysis (Purpose, Characteristics. Steps with common errors committed in planning and conducting the research)

Unit II: Planning of Good Research/Preparing a Research Proposal

- Formulation of the problems for research (Sources. Specification, Forming Research Questions, problem-analysis procedures evaluation of the Problem.
- Building Rationale for the Study (Review of related literature identifying the emerging trends from the review, building a strong rationale for the Problem Selecting the problem)
- Specifying Objectives and hypotheses of the Study
- Choosing appropriate design and stating the procedure (Selecting Appropriate methods, instruments/tools/techniques. Deciding about the subjects for the study conditions for conducting the study including procedures of data collection and data processing)
- Operational Definitions of the Concept and terms used, with the statement of underlying assumptions, perceived limitations and specific delimitation of the study

Unit III: Basic Methods of Educational Research

❖ Sampling

- Types and Techniques of sampling

❖ Hypothesis and Testing of Hypothesis

- Sources of Hypothesis
- Type of Hypothesis (Null. Directional, Statistical)
- Characteristics of a good hypothesis
- Hypothesis testing and Theory
- Error in Testing Hypothesis

Unit IV: Tools Techniques of Educational Research

❖ Tools

- Tests. Tasks, Attitude Scales, Checklist, Questions Opionnaire Interview Schedules for interview and observation. Inventory, Semantic Differential Scale.
- Use of ICT

❖ **Techniques**

- Observations, Interview. Focused Group discussion, ethnography, Document Study. Anecdotal, Role play and Simulation, Case Study

Unit V: Preparation of Research Report

- General Guidelines
 - Format of Research Report Journal article. Thesis and Dissertation, Paper at Professional Conferences)
 - Preparation of the Manuscript
 - Writing style
 - APA Reference Style Preparation of summary and Abstract
 - Evaluating and Finalizing the Report (including the process of converting dissertations and theses for publication as a journal article)
-

Paper-II Data Processing and Interpretation

100 marks (5×20)

Unit I: Quantitative Methods: Descriptive Methods

- Measures of central tendency, variability, NPC
- Measures of relationships (Correlation coefficient, Scales of Measurement and methods of determining coefficients of correlation, use and limitations of correlate)
- Measures of Relative Positions (Percentile Ranks, Standard Scores, t scores, z scores, Stanines)
- Graphical and diagrammatic presentation of Data.
- Use of Excel in data analysis

Unit II: Inferential Methods

- Concepts underlying applications
- Tests of Significance (including t-test and Chi-square test)
- Linear and Multiple Regression
- ANOVA,
- ANCOVA and MANOVA (Only general discussion)
- Factor Analysis (Overall acquaintance, only basic features)

Unit III Qualitative Methods: (Only General Orientation)

- Content Analysis,
- Constant comparison/Grounded Theory
- Analytic Induction
- Logical Analysis Matrix Analysis/Log-Frame Analysis.

- Event Analysis Microanalysis
- Hermeneutical Analysis
- Narrative Analysis

Unit IV: Post- Analysis Procedures

- Verification and Storage of data
- Presentation of analysed data
- Interpretation of results
- Discussion of results and drawing conclusions

Unit V: Using Basic Software for Word and Data processing

- Use of Microsoft Office Word, Power Point and Excel 'in word processing Data analysis, graphical presentation and preparation of document
- Browsing internet for related literature Inter Groups for dating or data And results
- Familiarity with SPSS package.
- Process of self-assessment Rubrics. Digital portfolio management, and Courseware management.

Paper-III: Review of Literature

100 marks (50×2)

- Review of Literature and Presentation

Paper IV: Seminar Presentation

100 marks (50×2)

- 2 Seminar Presentation (one Research Report & one Article)
-