

(14)

- sources of information from where new knowledge could be obtained ;
- nature, scope and limitation of educational research ;
- modalities necessary for formulating research problem ;
- sources for obtaining data, analysing and drawing for solving an educational problem ;
- major approaches that are available for conducting the educational research and preparing and communication of result - the research report.

Contents

First Half : Methodology of Educational Research

Unit-I : Nature and Scope of Educational Research

- (a) Meaning, Nature and Limitations ;
- (b) Need and Purpose ;
- (c) Scientific enquiry and Theory development ;
- (d) Fundamental, Applied and Action Research ;
- (e) Qualitative and Quantitative Research ;
- (f) Major Approaches to Research — Research Design, Descriptive Research, Ex-post-facto

(15)

Research, Experimental Research and Historical Research.

Unit-II : Formulation of Research Problem

- (a) Criteria of identifying the problem on the basis of tradition, experience, reasoning (inductive and deductive), empiricism and rationalism ;
- (b) Types and Sources of information ;
- (c) Variables - nature and types ;
- (d) Hypotheses - characteristics, types and formulation. Its differences with assumptions.

Unit-III : Collection of Data

- (a) Concept of Population and Sample ;
- (b) Methods of Sampling - Probability and Non-probability Sampling, Representative and Random sampling, Stratified Sampling, Cluster and Quota Sampling ;
- (c) Sampling Size and Sampling Error ;
- (d) Techniques and Tools : Characteristics of a good research tool - Objectivity, Reliability, Validity, Norms and Usability ;
- (e) Types of Research Tool and Techniques- Documents, Scrutiny, Observation, Interview, Questionnaire, Rating Scale, Schedule, Inventory and Performance Test ;