

CT PET
Syllabus for Ph.D. Entrance Examination
Research Methodology

UNIT 1: Meaning of Research

Meaning, aims, nature and scope of research
Prerequisites of research
Types of research.

UNIT 2: Research Problem

Meaning of research problem
Sources of research problem
Characteristics of a good research problem
Hypothesis: Meaning and types of hypothesis.
Research proposal or synopsis.

UNIT 3: Methods of Research Studies

Qualitative and Quantitative research methods.

Unit 4: Review of Related Literature

Purpose of the review.
Identification of the related literature.
Organizing the related literature.

UNIT 5: Data Collection (Sampling)

Population and sample, Characteristics of a good sample
Techniques of sample Selection Types of data in
research

UNIT 6: Tools of Data Collection

Characteristics of good research,
Types of data collection tools.

UNIT 7: Descriptive Statistics

Tabulation, Organization, and Graphical Representation of Quantitative data
Measures of Central Tendencies: Mean, Median, Mode
Measures of Variability: Range, Quartile Deviation, Standard Deviation,

UNIT 8: Research Report

Format of the research report
Style of writing the report