

# Swami Rama Himalayan University

## Ph.D. Syllabus for Entrance Examination

### Research Methodology

#### Unit I

Introduction of Research, Nature and purpose of scientific enquiry, Parameters of research, Problem Definition, Definition of construct and variables, Research Process, Steps in Research Process.

#### Unit II

Research Design, Concepts and Type of research design, Design of research on the basis of application—pure and applied, Design of research on the basis of Techniques/Methodology -Exploratory and, Descriptive, Descriptive Research – Qualitative and Quantitative, Quantitative – Field studies, Field experiments and laboratory experiments, Design of research on the basis of area of research – research in Social sciences and, Physical sciences,

#### Unit III

Measures of Central Tendency: Mean, Median and Mode

#### Unit IV

##### Reading Comprehension

Meaning of individual words and sentences

Meaning of paragraphs and larger bodies of text

Drawing conclusions from the information provided

Reasoning from incomplete data to infer missing information

#### Unit V

##### Reasoning- Mathematical, Logical and Analytical

Number Series; Letter Series; Codes, Relationships; Classification, Understanding the Structure of Argument, Evaluating and distinguishing Deductive and Inductive Reasoning, Verbal Analogies; Word Analogy – Applied Analogy, Verbal Classification, Reasoning Logical Diagrams: Simple Diagrammatic Relationship, Multi-Diagrammatic Relationship, Venn diagram; Analytical Reasoning