

# **S-VYASA Deemed to be University**

## **School of Advanced Studies**

(Under section 3 of the UGC act, 1956)

**Sattva Global City, Bengaluru-560059**



## **Ph.D. Admission**

### **Entrance Examination-Syllabus**

### **General Information for the candidates**

- Selection of candidates for Ph.D. Course in School of Advanced Studies will be based on the national level entrance examination conducted by S-VYASA (Deemed to be University).
- The entrance examination will consist of 50 multiple choice questions.
- The question paper will include questions based on general aptitude, research methodology and ethics (syllabus is available as Annexure 1).
- There will be No Negative marking for incorrect answers.
- A candidate shall be declared to have passed the entrance test when he/ she scores at least 50% of the marks in the entrance test.

## **Annexure-1**

### **Syllabus for Ph.D. Entrance Exam- Research Methodology**

#### **Unit 1:-**

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

#### **Unit 2:-**

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 (in-depth or Key Informant interviews), Focus Group Discussion (FGD), Observation, Records or Experimental Observations.

#### **Unit 3:-**

Analysis of data: Descriptive statistics, Inferential Statistics, Statistical Graphics, Histograms, Frequency Polygon, Ogive, Bar Graphs, Pareto Charts, Pie Charts, Scatterplots, Boxplots Descriptive Analysis, Frequency Distributions, Measures of Central Tendency, Measures of Variation/Dispersion, Skewness and Kurtosis, Coefficient of variation, Correlation and Regression Analysis, Chi square test, F test, t test, z test.

#### **Unit 4:-**

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.

#### **Unit 5:-**

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