

Ph.D. Entrance Test - SYLLABUS

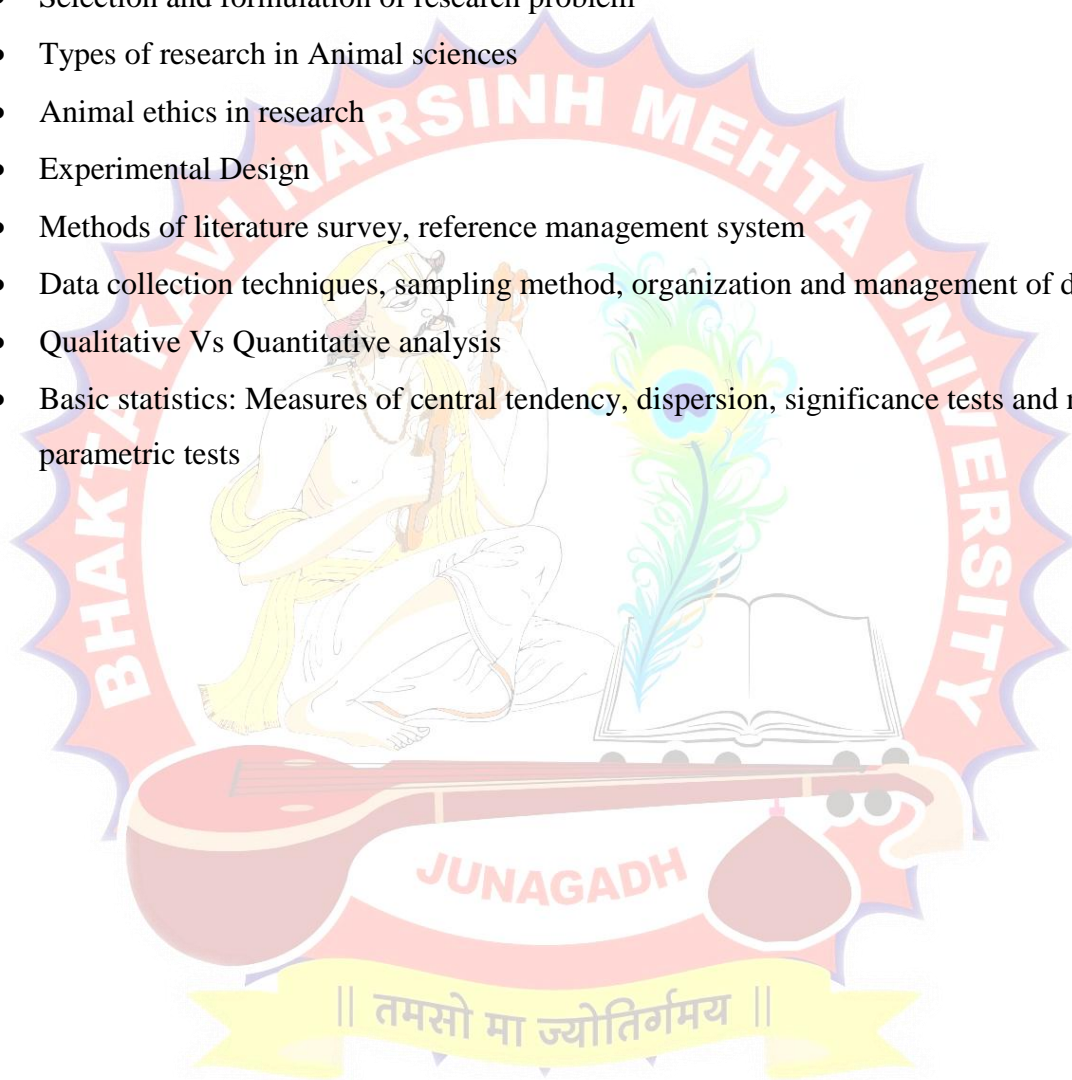
Zoology

Part -1

Research Methodology (50 %)

Research Methodology for Zoology

- Basic understanding and significance of research in Animal sciences
- Selection and formulation of research problem
- Types of research in Animal sciences
- Animal ethics in research
- Experimental Design
- Methods of literature survey, reference management system
- Data collection techniques, sampling method, organization and management of data
- Qualitative Vs Quantitative analysis
- Basic statistics: Measures of central tendency, dispersion, significance tests and non-parametric tests



Part-2
Core Subjective Paper – Zoology (50 %)

1. Structure and Function of Biomolecules
2. Cellular Organization
3. Fundamental Processes
4. Cell Communication and Cell Signaling
5. Developmental Biology
6. System Physiology – Plant
7. System Physiology – Animal
8. Inheritance Biology
9. Evolution and Diversity of Life Forms
10. Ecology and Behavioural Biology
11. Bioinformatics and Computational Biology
12. Biochemical Engineering and Industrial Biotechnology
13. Advances in Biotechnology
14. Methods in Biology

