

Walchand College of Arts and Science (Autonomous), Solapur
W.H.Marg, Ashok Chowk, Solapur

**Broad Syllabus: For Recruitment Examination of Assistant Professor
in Zoology**

1. Animal Diversity and Systematics, Taxonomy, Nomenclature and Classification
2. Invertebrate Zoology, Chordata and Vertebrate Zoology, Comparative Anatomy and Morphology, Evolutionary Biology
3. Animal Physiology, Cell Biology, Histology and Cytology, Molecular Biology, Biochemistry, Genetics and Genomics
4. Developmental Biology and Embryology, Reproductive Biology, Endocrinology
5. Neurobiology and Behavioral Biology
6. Immunology, Parasitology and Host–Parasite Interactions
7. Entomology
8. Ichthyology, Fisheries Biology, Herpetology, Ornithology, Mammalogy
9. Wildlife Biology and Conservation, Ecology and Environmental Biology, Animal Ecology and Population Biology, Biodiversity and Biogeography
10. Aquatic Biology and Limnology, Marine Biology, Applied Zoology, Economic Zoology
11. Animal Biotechnology, Genetic Engineering and Recombinant DNA Technology
12. Bioinformatics and Computational Biology, Genomics, Proteomics and Other Omics
13. Biostatistics and Research Methodology, Experimental Design and Scientific Data Analysis
14. Toxicology and Environmental Pollution
15. Climate Change and Global Change Biology, One Health and Zoonotic Diseases
16. Ethology and Animal Cognition
17. Conservation Genetics, Wildlife Forensics and Molecular Identification
18. Stem Cell Biology and Regenerative Biology, Nanobiology and Emerging Biological Technologies
19. Animal Health and Disease Biology
20. Contemporary Advances in Zoological Sciences

Category	Suggested Coverage
Classical/Fundamental Areas	30–35%
Core Discipline Knowledge	30–35%
Applied and Interdisciplinary Areas	20–25%
Contemporary and Emerging Areas	10–15%