

November 2025
M.Sc.
Third Semester
DISCIPLINE SPECIFIC ELECTIVE – 02
ZOOLOGY
Course Code: MZOD 3.21
(Research Methodology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. “Methods are the tools in the toolbox, while methodology is the instruction manual.” Critically evaluate this statement. 7+7=14
2. Write a note on each of the following: 7×2=14
 - (a) Descriptive vs analytical types of research
 - (b) Steps of working of research

UNIT-II

3. Elaborate the various techniques involved in defining research problem effectively. 14
4. Discuss the various steps involved in sample design in research work. Add a note on hypothesis-testing research studies. 10+4=14

UNIT-III

5. Explain how a researcher might use both primary and secondary data in a single study (a mixed-data approach). Provide a hypothetical example to illustrate your point. 14
6. Discuss the difference between survey and experimental research methods. 7+7=14

UNIT-IV

7. Discuss in detail the intellectual property rights (IPR) and mention the different types and importances of IPR. 10+4=14

8. Write an overview of report writing, its significance and the essential steps to create an effective research report. 14

UNIT-V

9. Give a comparative account of null hypothesis and alternative hypothesis. With examples, explain two-tailed test and one-tailed test. 8+6=14
10. What do you understand by level of significance in statistical analysis? Why is it important? Create a scenario and statistically conclude the outcome. 4+10=14
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