

M. SC. (ZOOLOGY)
(MSCZOO)
Term-End Examination
December, 2025

MZO-009 : RESEARCH METHODOLOGY

Time : 2 Hours

Maximum Marks : 50

Note : (i) *Attempt any **five** questions.*

(ii) *Each question carries 10 marks.*

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1. (a) Distinguish between structured and unstructured methods of observation in research. 4
 - (b) Discuss the different factors that need to be considered for developing a sample design. 6
 2. (a) Mention the desirable qualities that fulfill good research. 4

- (b) How would you define scientific method ?
Discuss the different steps in scientific method. 6
3. (a) Discuss the different forms of hypothesis. 5
- (b) Differentiate between prospective and retrospective cohort study in research. 5
4. (a) Enumerate the different measures for the validity of diagnostic tests. 5
- (b) Distinguish between cluster sampling and multistage sampling. 5
5. (a) Elucidate the different issues of correlation studies in research. 4
- (b) Describe the different scales of data measurement. 6
6. (a) Explain the different types of research documents. 5
- (b) Give a broad overview of the purpose and technique of detection of plagiarism in a scientific article. 5

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7. Write short notes on the following : $4 \times 2\frac{1}{2} = 10$

- (a) Selection of a research problem
- (b) Informal experimental design
- (c) Importance of research reports
- (d) Scatter diagram

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