

**Ph. D. IN STATISTICS
(PHDSTAT)
Term-End Examination
December, 2025**

**RST-001 : RESEARCH METHODOLOGY IN
STATISTICS**

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions have equal marks.

(iii) Non-programmable scientific
calculator is allowed.

(iv) Symbols have their usual meanings.

1. Describe the different types of research. Clearly point out the difference between an experiment and a survey. 20
2. Describe some of the important research designs used in research study. Also write a short note on criteria and objectives of a good research. 20

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3. How do you define a research problem ? Give three examples to illustrate your answer. Also describe the components of a research problem. 20
4. Describe the questionnaire. What are the guiding considerations in the construction of a questionnaire ? Explain. 20
5. A researcher requires to adopt several steps for testing of hypothesis. Describe all such steps considering the large sample test for testing the equality of two population means. 20
6. Explain the meaning and significance of the analysis of variance test. Describe briefly the techniques of analysis of variance for two-way classifications. Also state the basic assumptions of the analysis of variance test. 20
7. What are the different forms in which a research work may be reported ? Describe the characteristics of a good research report.

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