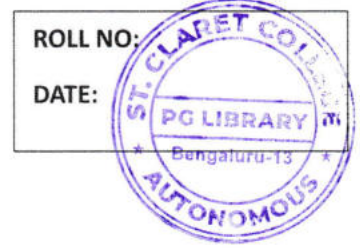


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St. Clare College

Autonomous, Bengaluru



PG END SEMESTER EXAMINATION-JAN/FEB 2026

M.Sc.(Psychology) FIRST SEMESTER

MPY1424: QUANTITATIVE RESEARCH METHODS AND PSYCHOMETRY

TIME: 3 hours.

MAX. MARKS: 70

This paper contains ONE printed page and THREE parts

Instructions:

1. Verify and ensure that the question paper is completely printed.
2. Any discrepancies or questions about the exam paper must be reported to the COE within 1 hour after the examination.
3. Students must check the course title and course code before answering the questions.

PART-A

Answer FOUR questions out of SIX. Each answer carries FIVE marks.

[5x4 = 20]

1. Distinguish between within group research design and between group research design with examples.
2. Discuss ethical issues and considerations in psychological research.
3. Explain the techniques of controlling extraneous variables.
4. Explain the method of determining sample size for large and small populations.
5. Differentiate between parametric and non-parametric tests.
6. Briefly explain the guidelines for item writing while developing a psychological test.

PART-B

Answer any TWO questions out of THREE. Each answer carries TEN marks.

[10x2=20]

7. Elucidate the characteristics of social science research
8. Explain the following types of data analysis: inferential, correlational, regression and data reduction.
9. Explain item response theory and its advantages over classical test theory

PART-C

Answer any TWO questions out of THREE. Each answer carries FIFTEEN marks.

[15X2=30]

10. Explain the types of quasi experimental designs with examples.
11. Explain the types, sources and functions of a research hypothesis.
12. Elaborate on the techniques of Probability and Non probability Sampling used in research.
