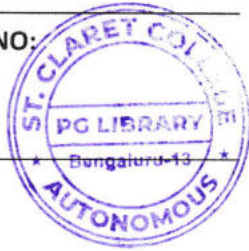


# St. Claret College

Autonomous, Bengaluru

ROLL NO:

DATE:



PG END SEMESTER EXAMINATION-JAN/FEB 2026

MSc PSYCHOLOGY: SEMESTER I

MPY 1524: STATISTICS IN PSYCHOLOGY

TIME: 3 hours.

MAX. MARKS: 70

This paper contains TWO printed pages 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. Write a brief Essay on the importance of Statistics in psychology
2. Calculate Mean and Standard Deviation for the following dataset.

<b>X</b>	15	18	25	8	20	12	26	24	22	16	9	22	11	27
<b>f</b>	2	1	1	4	5	4	2	6	3	1	2	4	4	2

3. Write short notes on the following:
  - a. Descriptive Statistics
  - b. Inferential Statistics
4. Write the assumptions for One-Way ANOVA.
5. A researcher wants to investigate if there is a significant relationship between hypertension and pregnancy. The researcher collected data from 50 pregnant women out of which 35 were found to be hypertensive and 15 were found to be non-hypertensive. The researcher also collected data from 70 non-pregnant women, of which, 58 were found to be non-hypertensive and 12 were found to be hypertensive. Use an appropriate statistical test to find if there is a significant relationship between pregnancy and hypertension.
6. Write the assumptions for Karl Pearson's Product moment correlation.

**PART-B**

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

[10x2=20]

7. Write short notes on the following:

- a. Skewness
- b. Kurtosis

8. Apply Kruskal-Wallis test on the following dataset and check if there is a significant difference in Academic Motivation between the students of M.Sc., M.Com and MSW departments.

<b>M.Sc</b>	25	22	24	29	30	35	21	22	26
<b>M.Com</b>	18	16	16	25	24	29	19	15	22
<b>M.SW.</b>	31	26	29	28	19	25	12	23	32

9. Apply Spearman's Rank Correlation and identify if there is a significant relationship between Height and Self-Esteem.

<b>Height</b>	156	185	150	162	193	164	165	162	151	172
<b>Self-Esteem</b>	21	26	22	24	30	26	24	26	22	25

**PART-C**

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

[15X2=30]

10. Define Normal Probability Curve. Delineate the characteristics of a Normal Probability Curve.

11. A researcher wants to investigate if there is a significant difference in life-satisfaction between people from the three socio-economic strata. Upon testing for Normality, the researcher found that the data is normally distributed. Apply an appropriate statistical test to see if there is a significant difference in Life Satisfaction between the three socio-economic strata.

<b>Lower</b>	15	14	19	22	26	12	20	15	18
<b>Middle</b>	18	21	25	26	18	15	19	29	24
<b>Upper</b>	35	32	21	34	37	29	30	26	22

12. What are Non-Parametric Statistics? Mann-Whitney U test is the non-parametric counterpart for which parametric test? Apply Mann-Whitney U test to find if there is a significant gender difference in Mathematics Anxiety.

<b>Male</b>	22	23	27	23	20	31	19	20	22
<b>Female</b>	35	38	36	32	32	38	29	27	30

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