

MASTER OF ARTS (PSYCHOLOGY)

Term-End Examination

June, 2022

MPC-006 : STATISTICS IN PSYCHOLOGY

Time : 2 hours

Maximum Marks : 50

Note : *All sections are compulsory. Use of simple calculator is permitted.*

SECTION A

*Answer any **two** of the following questions in about 450 words each :* *2×10=20*

1. Explain non-parametric statistics with a focus on its assumptions, advantages and disadvantages. 10

2. Discuss the steps in computation of regression with the help of suitable example. 10

3. Compute Kendall's tau for the following data : 10

Data X : 7, 8, 5, 6, 3

Data Y : 4, 6, 3, 1, 2

4. Compute ANOVA for the following data : 10

Group 1 : 2, 3, 4, 5, 2, 3, 4, 3, 2, 1

Group 2 : 3, 4, 3, 2, 6, 5, 4, 3, 3, 2

Group 3 : 4, 5, 4, 3, 3, 3, 3, 3, 3, 3

SECTION B

Answer any **four** of the following questions in about 250 words each :

4×6=24

5. Describe biserial and tetrachoric correlation. 3+3
6. Discuss the meaning, importance and application of standard error. 6
7. Compute Chi-square for the following data : 6

Responses

	Yes	No
Males	4	6
Females	6	4

8. Discuss Kruskal-Wallis analysis of variance. 6
9. Describe the importance and application of normal distribution. 6

SECTION C

Write short notes on any **two** of the following in about
100 words each :

2×3=6

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|--|---|
| 10. Types of Frequency Distribution | 3 |
| 11. Linear and Non-linear Relationship | 3 |
| 12. Kurtosis | 3 |
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