

MASTER OF ARTS (PSYCHOLOGY)**Term-End Examination****December, 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. Describe the measures of central tendency and measures of dispersion. *5+5*
2. Explain the steps in the calculation of Pearson's product-moment correlation, with the help of an example. *10*
3. Compute Kendall's 'tau' for the following data : *10*

	A	B	C	D	E
Data X	5	3	7	6	2
Data Y	7	8	9	6	4

4. Compute ANOVA for the following data :

10

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

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

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

SECTION B

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

4×6=24

5. Discuss the characteristics of normal probability curve. 6
6. Explain Type I and Type II errors, with suitable examples. 6
7. Compute chi-square for the following data : 6

Responses

	Yes	No
Gender		
Males	5	5
Females	6	4

8. Describe point-biserial correlation and phi-coefficient. 6
9. What is Skewness ? Explain the factors causing divergence in normal distribution. 2+4

SECTION C

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

2×3=6

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|-----------------------------------|---|
| 10. Point and Interval Estimation | 3 |
| 11. Partial Correlation | 3 |
| 12. Mann-Whitney U-test | 3 |
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