

MASTER OF ARTS (PSYCHOLOGY)

Term-End Examination

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. Define parametric statistics and describe its assumptions, advantages and disadvantages. 3+7
2. Explain linear and nonlinear relationship with suitable diagrams. Discuss the steps in computing Pearson's product moment correlation. 4+6
3. Compute *t* test for the following data: 10
 Group-A 2, 3, 5, 4, 1, 5, 10, 4, 6, 10
 Group-B 7, 10, 5, 8, 4, 6, 12, 13, 2, 3
4. Compute one way ANOVA for the following data and indicate if groups differ on the variable: 10

<i>F</i> value =	$P < 0.5$	$P < 0.1 =$
	3.35	5.49

Group A: 2, 3, 4, 2, 3, 2, 2, 2, 3, 3

Group B : 2, 4, 5, 5, 5, 2, 3, 5, 5, 2

Group C : 2, 3, 4, 2, 5, 2, 2, 3, 2, 3

Section-B

Answer any four of the following questions in about 250 words each. $4 \times 6 = 24$

5. Discuss frequency distribution in terms of grouped and ungrouped data. Elucidate the types of frequency distribution. $4+2$
6. Differentiate between partial and part correlation with suitable example. 6
7. Compute Mann Whitney U for the following data:
Group 1 : 23, 21, 7, 14, 10, 13, 25, 29, 48, 55
Group 2 : 20, 8, 15, 9, 45, 12, 40, 47, 50, 51
8. Discuss the step by step procedure for Kendall's Rank Order Correlation. 6
9. Compute Chisquare for the following data:

	Male	Female
Literate	10	30
Illiterate	20	40

Section-C

Write short notes on any two of the following in about 100 words each: $2 \times 3 = 6$

10. Sampling error. 3
11. Assumptions underlying the Analysis of Variance. 3
12. Nominal data. 3