

MASTER OF ARTS (PSYCHOLOGY)**Term-End Examination, 2019****MPC-006 : STATISTICS IN PSYCHOLOGY****Time : 2 Hours****Maximum Marks : 50**

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

SECTION - A

Note : Answer any two of the following in about 450 words each:

[2×10=20]

1. Explain the meaning of inferential statistics. Describe hypothesis testing. [5+5]
2. Discuss in detail partial correlation with suitable example. [10]
3. Describe the basic assumptions in testing of significance of difference between two sample means. Compute t-value for the following data : [4+6]



Data 1:	2	3	4	2	5	3	4	2	2	3
Data 2:	3	4	5	5	5	2	2	4	4	6

Critical Value =

2.10 at 0.05 level of significance

2.88 at 0.01 level of significance.

4. Compare between Rho and Tau. Compute Kendall's tau for the following data : [3+7]

	A	B	C	D	E
Variable X :	3	2	4	1	5
Variable Y :	5	1	2	3	4

SECTION - B

Note : Answer **any four** of the following questions in about **250** words each : [4×6=24]

5. Explain the meaning and concept of levels of significance. Describe the steps in setting up the level of significance. [3+3]
6. Compute Mann Whitney U test for the following data : [6]

Group 1 :	19	25	17	27	30	16	44	50	
Group 2 :	12	36	10	37	13	46	57	63	70

7. Compute chi-square for the following data : [6]

	Agree	Disagree
Males	12	14
Females	13	20

8. Define non-parametric statistics and discuss its assumptions. [6]
9. Explain divergence in normality with the help of suitable diagrams. [6]

SECTION-C

Note : Write short notes on **any two** of the following in about 100 words each : [2×3=6]

10. Measures of Dispersion [3]
11. Concept of Normal Curve [3]
12. Kruskal-Wallis ANOVA test [3]

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