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MPC-006

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 is permitted.

SECTION-A

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

1. Explain descriptive statistics. Describe graphical presentation of data. [3+7=10]
2. Discuss Spearman's rank-order correlation with suitable example. [10]
3. Describe standard error. Compute t test for the following data : [3+7=10]

Data 1 :	8,	4,	2,	1,	6,	7,	2,	3,	2,	5
Data 2 :	10,	15,	20,	21,	9,	30,	31,	19,	10,	15

Critical value = 2.10 at 0.05 level 2.88 at 0.01 level

4. What is tetrachoric correlation ? Compute Kendall's tau for the following data : [3+7=10]

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

SECTION-B

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

5. Explain hypothesis testing. Describe errors in hypothesis testing. [3+3=6]
6. Compute Mann-Whitney U test for the following data : [6]

Group 1 : 32, 93, 19, 40, 46, 71, 63, 98, 47, 49, 52

Group 2 : 89, 21, 82, 91, 85, 84, 103, 101, 100, 107, 110

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

Opinion

	Agree	Undecided	Disagree
Male	10	13	11
Female	15	12	14

8. Discuss the use of non-parametric tests. [6]
9. Explain in detail Wilcoxon matched pair signed rank test with suitable example. [6]

SECTION-C

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

10. Semipartial Correlation. [3]
11. Factors causing divergence in normal curve. [3]
12. Meaning of Variance. [3]

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