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MPC-006

06381

MASTER OF ARTS (PSYCHOLOGY)

Term-End Examination

December, 2018

MPC-006 : STATISTICS IN PSYCHOLOGY

Time : 2 hours *Maximum Marks : 50*

Note : (i). All sections are compulsory.

(ii) Use of simple calculator is permitted.

SECTION - A

Answer **any two** of the following questions in about **450** words each : **2x10=20**

1. Differentiate inferential from descriptive statistics. Describe steps in setting up the level of significance. **4+6**

2. Discuss the rational for using non-parametric statistics and describe its advantages and disadvantages. **3+7**

3. Explain partial correlation. Compute Spearman's Rho for the following data : **3+7**

Data : A	60	54	59	44	49	48	40
Data : B	55	60	69	70	67	66	54

4. Compute ANOVA for the following data : **10**

Group : 1	2	2	3	3	2	4	2	3	2
Group : 2	3	2	2	2	3	3	2	2	2
Group : 3	3	3	3	4	4	4	1	1	1

Critical value : 19.41 for 0.05 level of significance
99.46 for 0.01 level of significance

SECTION - B

Answer **any four** of the following in about 250 words each : 4x6=24

5. Compute t test for the data given below : 6

Group A : 10, 4, 3, 2, 4, 2, 5, 10, 5, 5

Group B : 4, 6, 8, 2, 9, 1, 12, 13, 10, 10

Critical value : 2.10 at 0.05 level of significance

2.88 at 0.01 level of significance

6. Compute Mann Whitney U test for the following data : 6

Group A : 100, 86, 94, 85, 69, 70, 82, 74, 64, 59

Group B : 96, 92, 90, 84, 80, 78, 76, 65, 62, 50

7. Compute Chi square for the following data : 6

responses

	Agree	Disagree	Not decided
Male	20	10	20
Female	10	20	30

Critical value :

5.991 at 0.05 level of significance

9.210 at 0.01 level of significance

8. Discuss the importance and application of standard error of mean. 6

9. Discuss factors causing divergence in normal curve. 6

SECTION - C

Write short notes on **any two** of the following in about **100** words each : 2x3=6

10. Point biserial correlation. 3

11. Linear regression. 3

12. Two ways Analysis of Variance. 3