MPC-006

MASTER OF ARTS (PSYCHOLOGY) Term-End Examination June, 2016

MPC-006 : STATISTICS IN PSYCHOLOGY

Time : 2 hours

07892

Maximum Marks : 50

Note : (i) All sections are compulsory.

(ii) Use of simple calculator be permitted.

SECTION - A

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

- 1. Define parametric and nonparametric statistics. **5+5** Discuss their assumptions.
- Describe divergence of normality with suitable 10 diagrams. Explain the factors causing divergence in normal curve.
- A research was carried out to find if significant 10 difference exists in Achievement Motivation Scores obtained by three groups. Using ANOVA, find out if there exists difference in the 3 groups.

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Group - I	Group - II	Group - III
4	8	7
4	12	7
6	14	7
2	23	8
4	14	7
4	25	8
5	15	9
2	15	8
3	14	8
4	13	6
		-

Critical value : 5.49 at 0.01 level of significance 3.35 at 0.05 level of significance

4. Compute regression equation for X and Y based 10 on the data given below :

Individuals	x	Y
А	3	2
В	6	4
С	4	7
D	5	9
Ε	3	11
F	9	12

SECTION - B

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

- 5. Explain the meaning of descriptive statistics. 2+4 Discuss its advantages and disadvantages.
- 6. Calculate Mann Whitney U test with the help 6 of the following data : Group 1 : 38, 64, 66, 70, 46 Group 2 : 45, 65, 71, 62, 70, 43

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7. Compute Chi - square for the following data :

Years of	Organisational	Citizenship
Experience	High	Low
1 - 5 Years	10	15
6 - 10 Years	15	20
11- 15 Years	20	13

8. Compute Spearman's Rank correlation for the following data : Data 1 : 34, 45, 54, 34, 23, 43, 45, 45, 43, 45 Data 2 : 43, 45, 54, 34, 34, 43, 43, 23, 34, 43

9. Describe Phi Coefficient and Biserial Correlation. 3+3

SECTION - C

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

10.	Kendall's Tau	3
11.	Wilcoxon Matched Pair Signed Rank Test	3
12.	Multiple Correlation	3

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