

M.A. IN PSYCHOLOGY (MAPC)

02012

Term-End Examination

June, 2014

MPC-006 : STATISTICS IN PSYCHOLOGY

Time : 2 hours

Maximum Marks : 50

Note : *Attempt any five questions. All questions carry equal marks. Use of simple calculator is permitted.*

1. Define Parametric and Non-parametric Statistics. Discuss their advantages and disadvantages. 5+5

2. Discuss in detail the four major statistical techniques for organising the data. 10

3. Describe the Hypothesis-testing process. What are the implications if you reject or fail to reject the Null Hypothesis ? 3+5

4. Delineate the steps in setting up the level of significance. 10

5. Describe linear and non-linear relationship with suitable examples. 10

6. Define Product moment coefficient of correlation.

Calculate “ r ” for the following data :

3+7

	Set X	Set Y
1	30	25
2	35	30
3	35	35
4	40	40
5	45	55
6	55	50
7	65	70
8	50	60
9	45	45
10	50	40
Total	450	450

7. When do we use Kendall “Tau” ? Find out Tau value for the following data :

2+8

Subject	R_x	R_y
A	1	1
B	2	3
C	3	2
D	4	4

8. Describe with example, the divergence from Normality (The Non-Normal Distribution).

10

9. Discuss the procedure involved in Analysis of Variance. Find out the F-value for the following data : 4+6

Group A	Group B	Group C
4	15	6
6	20	10
8	25	12
10	30	15
12	35	20

10. Write short notes on any *two* of the following : 5+5

- (a) Point estimation and Interval estimation
 - (b) Type I and Type II errors
 - (c) Degrees of freedom
 - (d) Variance
 - (e) Points to remember while testing the significance of difference in two means.
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