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MPC-006

M. A. (PSYCHOLOGY)
(MAPC)

Term-End Examination

December, 2023

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

Note : *Answer any two of the following questions in about 450 words each (wherever applicable).*

2×10=20

1. Explain organisation of data. 10
2. Elucidate partial and part correlation (semi-partial correlation) with the help of suitable examples. 5+5

P. T. O.

3. Compute one-way ANOVA for the following data : 10

Group A	Group B	Group C
7	2	3
8	4	4
6	7	2
2	8	2
4	6	3
5	4	4
7	7	4
8	8	5
9	9	7
10	10	2

Critical values :

3.35 at 0.05 level of significance

5.49 at 0.01 level of significance

4. Compute Spearman's rho for the following data : 10

Data A	Data B
15	20
16	17
11	4
13	12
18	5
10	11
12	10
6	8
7	2
2	3

Section—B

Note : Answer any **four** questions in about **250** words each (wherever applicable).

4×6=24

5. Describe divergence in normality with the help of suitable diagrams. 6
6. Compute Chi-square for the following data : 6

Responses

	Agree	Undecided	Disagree
Junior Managers	10	15	5
Senior Managers	10	5	15

7. Describe the levels of measurement with suitable examples. 6
8. Compute Mann-Whitney U-test for the following data : 6

Group A	Group B
20	31
13	10
14	9
16	7
18	6
21	3
30	25

9. Elucidate hypothesis testing. 6

Section—C

Note : Write short notes on any **two** of the following
in about **100** words each. $2 \times 3 = 6$

10. Tetrachoric correlation. 3
11. Linear regression 3
12. Scatter plot 3