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MPC-006

M. A. PSYCHOLOGY (MAPC)

Term-End Examination

June, 2024

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 in about
450 words each : 2×10=20

1. Discuss the assumptions of parametric and nonparametric statistics. 10

2. Explain the concept of normal curve with the help of a diagram. Describe the characteristics of normal probability curve. 3+7

P. T. O.

3. Compute ANOVA for the following data : 10

Group A	6	7	3	4	2	4	6	7	8	1
Group B	4	7	3	4	7	3	2	7	4	2
Group C	3	6	2	6	8	6	3	9	6	3

Critical value : 3.35 at 0.05 level

5.49 at 0.01 level

4. Compute Chi-square for the following data : 10

Responses				
Categories	Never	Rarely	Sometimes	Always
Group A	10	12	8	10
Group B	6	4	7	3
Group C	11	9	4	6
Group D	7	3	4	6

Section—B

Note : Answer any **four** of the following in about
250 words each : $4 \times 6 = 24$

5. Compute Spearman's rho for the following data : 6

Data A	16	17	4	6	7	5	10	2	3
Data B	18	19	21	4	7	8	9	6	2

[3]

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

Group A	7	6	3	2	14	6	10
Group B	7	8	1	13	4	7	9

7. Elucidate part correlation. 6
8. Explain the concept, merits and demerits of two- way ANOVA. 6
9. Explain the measures of central tendency and measures of dispersion. 3+3

Section—C

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

10. Level of significance 3
11. Kruskal-Wallis ANOVA test 3
12. Standard error 3