

No. of Printed Pages : 4

MPC–006

M. A. (PSYCHOLOGY)

(MAPC)

Term-End Examination

December, 2024

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. 2×10=20

1. Explain parametric and non-parametric statistics. Describe the advantages and disadvantages of non-parametric statistics. 5+5
2. Explain the organisation of data with the help of suitable examples. 10

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P. T. O.

3. Compute ANOVA for the following data : 10

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

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	Agree	Undecided	Disagree
Group A	8	2	5
Group B	6	4	5
Group C	2	3	5
Group D	5	5	5

Section—B

Note : Answer any *four* of the following questions
in about **250** words each. 4×6=24

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

Data A	Data B
1	3
7	9
6	12
4	11
5	8
9	13
8	15
2	14
3	4
10	2

6. Explain the concept of normal distribution. Describe the factors causing divergence in normality. 3+3
7. Describe point biserial correlation with the help of suitable examples. 6

8. Describe Wilcoxon matched pair signed rank test. 6
9. Describe interactional effect. Explain the demerits of two-way ANOVA. 2+4

Section—C

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

10. Type I and Type II errors. 3
11. Multiple regression. 3
12. Mann-Whitney U-test. 3

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