No. of Printed Pages : 5

MPC-006

M. A. (PSYCHOLOGY)

(MAPC)

Term-End Examination

December, 2021

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. Discuss the applications of normal distribution curve. Describe divergence from normality with

suitable diagram and discuss the factors causing divergence. 2+8

2. Elucidate the definition and assumptions of non-parametric statistics and describe its use. 7+3

3. Explain biserial correlation. Compute Pearson's product moment correlation for the following data : 3+7

	Data X	Data Y
A	10	12
B	12	13
C	13	5
D	11	12
E	9	13
F	8	15
G	12	10
H	5	10
I	10	10
J	10	10

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

Group 1	Group 2	Group 3
2	4	5
3	5	5
3	5	5
2	5	4
2	2	4
3	4	5
3	4	5
2	5	4
2	5	4
2	5	5

CV = 3.35 at 0.05 level

5.49 at 0.01 level.

Section—B

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

5. Compute Mann-Whitney U-test for the following data :

Data A	Data B
5	4
23	17
20	18
11	8
27	29
24	13
40	30
37	33
45	50
31	

6. Compute Chi-square for the following data : 6

Responses

	Yes	No	Undecided
Male	10	10	10
Female	20	10	10

7. Define and describe coefficient of correlation. Discuss the characteristics and measures of correlation. 3+3

8. Describe the measures of central tendency and measures of dispersion. 3+3

9. Explain step by step procedure for computation of Kruskal Wallis ANOVA with an example. 6

Section—C

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

10. Degrees of Freedom 3

11. Interactional Effect 3

12. The Regression Equation 3