No. of Printed Pages : 3 **MPC-006**

M. A. (PSYCHOLOGY)

(MAPC)

Term-End Examination

June, 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. Describe the *four* major statistical techniques for organising the data.   10

2. Discuss the concept, properties and characteristics of normal probability curve with the help of a suitable diagram.   10

3. Explain Phi coefficient. Compute Pearson's product moment correlation for the following data :   2+8

Individuals	A	B	C	D	E	F	G	H	I	J
Data X	5	5	4	4	4	3	2	2	6	5
Data Y	6	6	4	4	4	5	5	5	4	7

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

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

Critical value :

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. Differentiate between parametric and non-parametric statistics.   6

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

   Group A : 60, 22, 27, 31, 35, 47, 56, 40, 55

   Group B : 20, 29, 24, 39, 34, 41, 49, 50, 51

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

Responses

	Yes	No
Male	20	15
Female	20	20

8. Elucidate interactional effect. Discuss the merits and demerits of two-way ANOVA. 2+4

9. Describe the levels of measurement with suitable examples. 6

Section—C

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

10. Decision errors. 3

11. Characteristics of variance. 3

12. Multiple regression. 3

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