

AU-2428

M.A. (Part-I) Semester-II Examination

PSYCHOLOGY

(Statistics and Psychological Testing)

Paper-III

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions carry equal marks.

(2) Question No. 9 is compulsory.

(3) Use of statistical tables and calculator is permitted.

UNIT-I

1. Answer the following questions :

- | | |
|---|---|
| (A) Explain descriptive statistics. | 4 |
| (B) Discuss Type I and Type II error. | 4 |
| (C) Write assumptions of product moment correlation. | 4 |
| (D) Write uses of rank difference correlation method. | 4 |

OR

2. Answer the following questions :

- | | |
|---|---|
| (A) Explain features of inferential statistics. | 4 |
| (B) Write assumptions of Biserial correlation method. | 4 |
| (C) Discuss 0.01 and 0.05 level of significant. | 4 |
| (D) Write features of Phi coefficient. | 4 |

UNIT-II

3. Anxiety scale is administered to 10 boys and 10 girls. The obtained scores are given below. Compute : ratio and find out the difference in anxiety among boys and girls. Interpret the results.

Boys	Girls
5	3
6	3
5	3
5	4
9	3
7	3
6	3
8	4
7	5
4	4

16

OR

4. To study the effect of parental attitude and education on children's adjustment, the obtained data is given below. With 2×2 factorial design, find out the main and interaction effects on adjustment. Interpret the results.

	Low-Low	Low-High	High-Low	High-High
S.No.	A_1-B_1	A_1-B_2	B_1-A_1	B_1-B_2
1.	10	6	6	7
2.	9	6	6	7
3.	9	8	5	8
4.	10	7	4	9
5.	8	5	6	7

16

UNIT-III

5. In mental hospital, 170 mental patients are classified in reference with economic status. Calculate Chi-square (χ^2) with hypothesis of equal probability for the following data and interpret the results.

		X mental illness			Total	
		Schizophrenic	Depression	Organic		
Y	S	Upper middle	10	5	2	17
	E	Middle	44	14	16	74
	S	Lower middle	58	12	9	79
	Total		112	31	27	170

16

OR

6. In a sample of 90, intelligence test is given. The obtained data is given in 2×2 contingency table. Calculate Chi-square (χ^2) and interpret the result.

	IQ	
	Below Normal	Above Normal
Boys	17	23
Girls	28	22
		16

UNIT-IV

7. Answer the following questions :

- | | |
|--|---|
| (A) Explain types of norms. | 4 |
| (B) Write uses of psychological test. | 4 |
| (C) Discuss characteristics of standardized test. | 4 |
| (D) Write ethical implications of psychological testing. | 4 |

OR

8. Answer the following questions :

- | | |
|--|---|
| (A) Write origin of psychological testing. | 4 |
| (B) Discuss methods of item analysis. | 4 |
| (C) Write methods of reliability. | 4 |
| (D) Explain methods of validity. | 4 |

(Compulsory Question)

9. Solve very short questions :

- | | |
|--------------------------------------|---|
| (A) What is positive correlation ? | 2 |
| (B) What is regression equation ? | 2 |
| (C) What is standard score ? | 2 |
| (D) What is standard error of mean ? | 2 |
| (E) What is sign test ? | 2 |
| (F) Define Chi-square. | 2 |
| (G) Define psychological testing. | 2 |
| (H) Define norms. | 2 |

