

2022

**PSYCHOLOGY — HONOURS**

Paper : CC-2

(Statistical Methods for Psychological Research - 1)

Full Marks : 50

*The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer *any two* of the following (word limit 300 each):

5×2

- Interval and Ratio Scale
- Kurtosis
- Percentile Ranks
- Statistic and Parameter.

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LIBRARY2. Answer *any one* of the following (word limit 800):

- Write the steps of plotting frequency polygon. 10
- Relevance of statistics in psychological research. 10
- Write the assumptions of rank difference correlation. Compute rank difference correlation for the following data and comment on the result. 3+7

Vocabulary test		Type writing test	
Individual	Scores	Individual	Scores
1	8	1	29
2	22	2	48
3	35	3	55
4	19	4	49
5	23	5	53
6	13	6	41
7	2	7	22
8	14	8	38
9	11	9	35
10	25	10	48
df	0.05	df	0.1
7	0.666	7	0.789
8	0.632	8	0.765
9	0.602	9	0.735

Please Turn Over

3. Attempt *any two* of the following (word limit **1000** each) :

- (a) State different measures of dispersion. Discuss their uses. Applying suitable method find out standard deviation of the following distribution. 2+5+8

Class Interval	Frequencies
80-89	5
70-79	8
60-69	8
50-59	10
40-49	9
30-39	8
20-29	7

N = 55

- (b) Explain the properties of Normal Probability Curve. Bring out the relationships between Standard Scores and the Normal Curve. 10+5
- (c) Write the assumptions of Product Moment Coefficient of correlation. Assuming normality of the distributions, find out the relation between the two sets of mark obtained in the admission test of class XII. Comment on the result. 6+9

Students	Mathematics (X)	Chemistry (Y)
A	52	24
B	56	27
C	58	36
D	61	30
E	62	28
F	64	32
G	63	34
H	67	32
I	69	30
J	73	36

- (d) What is randomization? How does its role influence sampling? Discuss the characteristics of random sampling distribution of Mean. 2+5+8