

2021

## PSYCHOLOGY — HONOURS

Paper : CC-2

(Statistical Methods for Psychological Research - I)

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. Write short notes on **any two** (word limit **100** each) : 5×2
- Histogram
  - Skewness
  - Descriptive Statistics
  - The semi-Interquartile range.
2. Answer **any one** of the following (word limit **150**) :
- Write with suitable examples the different scales of measurement. 10
  - Discuss the necessity of Sampling in research. Write the characteristics of random sampling. 4+6
  - What is variability? With *any method* calculate the standard deviation of the following data. 2+8

Class Interval	Frequency
57-61	2
52-56	2
47-51	3
42-46	6
37-41	6
32-36	20
27-31	50
22-26	63
17-21	53
12-16	33
7-11	11
2-6	1

N = 250

Please Turn Over

3. Write *any two* of the following (word limit **200** each) :

- (a) With a suitable diagram discuss the characteristic of a Normal Probability Curve. Show the areas of distribution in terms of Percentage of the Cases. 10+5
- (b) Define central tendency. Mention different types of its measure. Compute the most stable measure of central tendency of the following data. (2+3)+10

<b>Class Interval</b>	60–64	65–69	70–74	75–79	80–84	85–89	90–94
<b>Frequency</b>	2	4	6	12	8	5	5

- (c) Write the steps of plotting a frequency distribution (Polygon). 15
- (d) (i) What is correlation coefficient?
- (ii) Correlation describe the degree and direction of the relationship between two variables—discuss.
- (iii) What are the assumptions of Spearman's rank order correlation?
- (iv) Compute the correlation of the following data. 2+5+3+5

V <sub>1</sub>	8	6	5	7	9	2
V <sub>2</sub>	16	11	6	24	22	10

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