WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 2nd Semester Examination, 2022

PSYACOR04T-PSYCHOLOGY (CC4)

STATISTICAL METHODS FOR PSYCHOLOGICAL RESEARCH-I

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

Write short notes on any *four* topics   5×4 = 20

1. Differentiate between continuous and discontinuous variables.   5

2. What are the relative advantages and disadvantages of mean, median and mode?   5

3. Describe standard deviation and variance with the help of an example.   5

4. Define: $2\frac{1}{2} \times 2 = 5$
    (a) Population and Sample
    (b) Degrees of Freedom.

5. Write the factors that determine shape of a graph.   5

6. Compute the SD of the following body weights (kg) of 16 women: 5

    55, 60, 62, 58, 57, 61, 59, 60, 61, 62, 67, 48, 54, 65, 63, 52.

Answer any *two* questions from the following   10×2 = 20

7. Define Variable. Describe with examples different classes of variables.   2+8

8. Write about the different properties of correlation. Delineate the assumptions of biserial *r* and point biserial *r*.   4+6

9. Calculate the mean, median and crude mode from the data grouped into a frequency distribution: 10

Class Intervals Scores	Frequency
195 – 199	1
190 – 194	2
185 – 189	4
180 – 184	5
175 – 179	8
170 – 174	10
165 – 169	6
160 – 164	4
155 – 159	4
150 – 154	2
145 – 149	3
140 – 144	1

10. Delineate the properties of normal probability distribution.   10

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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