



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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