



Full Marks: 40

 $2 \times 5 = 10$ 

### WEST BENGAL STATE UNIVERSITY B.A./B.Sc. Honours 2nd Semester Examination, 2019

# PSYACOR04T-Psychology (CC4)

## STATISTICAL METHOD FOR PSYCHOLOGICAL RESEARCH-I

Time Allotted: 2 Hours

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

- 1. Answer any *five* questions from the following:
  - (a) Define variable.
  - (b) What is degrees of freedom?
  - (c) What is inferential statistics?
  - (d) What is range?
  - (e) Define variance.
  - (f) State any two disadvantages of median.
  - (g) State any two features of mean.
  - (h) Mention any two properties of ordinal scale.
- 2. Answer any *four* questions from the following:  $5 \times 4 = 20$ 
  - (a) Distinguish between descriptive and inferential statistics.
  - (b) What is central tendency? What are the uses of different measures of central 1+4 tendency?
  - (c) Write the assumptions of bi-serial correlation.
  - (d) Distinguish between tetrachoric and phi-correlation.
  - (e) Differentiate between ordinal and ratio scale of measurement.
  - (f) Write the differences between product moment and rank difference correlation.

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(g) Write the properties of quartile deviation.

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3. Answer any *one* question from the following:

#### $10 \times 1 = 10$

(a) Compute mean and median of the following distribution:

1	C.I.	80-84	75-79	70-74	65-69	60-64	55-59	50-54	45-49	40-44	35-39
	f	1	3	5	4	4	8	8	7	6	4

(b) Compute the coefficient of correlation for the following continuous scores assuming normality and comment on the result:

X	99	103	111	116	127	117	122	113	100	96
Y	33	20	37	42	40	48	20	32	22	21

X = Performance IQ scores

Y = Clerical accuracy scores.

df	Critical scores					
ui	0.05	0.01				
08	0.6319	0.7646				
18	0.4438	0.5614				
20	0.4227	0.5368				

(c) Define measurement. Write down the major properties of nominal and interval 2+8 scale of measurement.

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