



# BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Sc.(PSY)-Hons-2022

Course Name – Statistics and Research Methodology- I

Course Code - PSYC102

( Semester I )

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Illustrate the definition of Sampling from the following
- |   |                                       |
|---|---------------------------------------|
| a) Process used in statistical analysis | b) Process used in preparing students |
| c) Process used in building trust       | d) Process used in understanding      |
- (ii) Choose the variable which is controlled and manipulated by the Researcher in statistical analysis and research methods:
- |                        |                         |
|------------------------|-------------------------|
| a) Extraneous variable | b) Independent Variable |
| c) Dependent Variable  | d) None                 |
- (iii) Identify the measure of central tendency includes the magnitude of scores
- |           |          |
|-----------|----------|
| a) Mean   | b) Mode  |
| c) Median | d) Range |
- (iv) Choose the statistical method which allows researchers to draw conclusions about a population from a sample?
- |                           |                         |
|---------------------------|-------------------------|
| a) inferential statistics | b) summary statistics   |
| c) population statistics  | d) qualitative research |
- (v) Justify why descriptive statistics are useful:
- |   |  |
|---|--|
| a) tell us whether a study is significant | b) infer from the sample to the population |
| c) summarize large amounts of data        | d) test a hypothesis                       |
- (vi) Students receive the following scores on a happiness questionnaire: 25, 30, 30, 35, 40, 20. Solve the mean:
- |       |       |
|-------|-------|
| a) 30 | b) 25 |
| c) 20 | d) 40 |
- (vii) Calculate mean from the given data set: 23,24,23,25,25,26
- |          |          |
|----------|----------|
| a) 23.76 | b) 25.90 |
| c) 24.33 | d) 19.12 |
- (viii) The variable which is not manipulated by the experimenter, but only statistically measured is
- |                        |                         |
|------------------------|-------------------------|
| a) Extraneous variable | b) Controlled variable  |
| c) Dependent variable  | d) Independent variable |



Assess the Mean, Median and Mode

Class	$f_i$
0-10	3
10-20	4
20-30	6
30-40	4
40-50	8

10. Prepare class interval, frequency distribution and cumulative frequency of the following ungrouped data set: 403,401,410,411,427,405,423,430,425,428,418,419,409,410 (5)
11. Assess the pros-cons of descriptive and inferential statistics (5)
12. Analyze the usefulness of placebo in a research. (5)

**OR**

Criticize the non-probability sampling in statistical analysis and research methods. (5)

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