





## **BRAINWARE UNIVERSITY**

Term End Examination 2023
Programme – B.Sc.(BT)-Hons-2020
Course Name – Biostatistics
Course Code - BBTD601A
(Semester VI)

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

- Choose the correct alternative from the following :
- (i) Spatial autocorrelation is . . Choose the correct option.
  - The error term pertaining to one household or firm is correlated with the error term of another household or firm through space
  - c) The independent variable pertaining to one household or firm is correlated with the error term of another household or firm through space
- b) The dependent variable pertaining to one household or firm is correlated with the error term of another household or firm through space
- d) Both The error term pertaining to one household or firm is correlated with the error term of another household or firm through space and The independent variable pertaining to one household or firm is correlated with the error term of another household or firm through space
- (ii) The statistical properties of OLS estimators are \_\_\_\_\_\_. Choose the correct option.
  - a) Linearity, Unbiasedness, and minimum variance
- b) Linearity and Unbiasedness
- c) Unbiasedness, and minimum variance
- d) Linearity and minimum variance
- (iii) Define measure of central tendency includes the magnitude of scores
  - a) Mean

b) Mode

c) Median

- d) Range
- (iv) Identify which of the following is not a disadvantage of using mean?
  - a) It is affected by extreme values
- b) It cannot be computed in grouped data with open-ended class intervals
- It does not possess the desired algebraic property
- d) None of the these

(v)	explanatory variable Identify the	
	a) Indifference curve c) Production Possibility curve	b) Population regression curve d) None of these
(vi)	To calculate the median, all the items of a se Select the correct option.	
(vii)	a) Ascending order     c) Ascending or Descending order     Sample regression function is the estimated correct option.	
	a) Estimated version of population regression function	b) Estimated version of population correlation function
	c) Not an estimated version of population regression function	d) Both estimated version of population correlation function and not an estimated version of population regression function.
(viii)	Mode refers to the value within a series that Select the correct answer:	
	a) Maximum     c) Minimum     The chance of rejecting of a true hypothesis     . Choose the correct option.	b) Infinite     d) Zero decreases when sample size is
	a) increases c) constant Identify the full form of OLS.	b) decreases d) both increases and decreases
	a) Ordinary least square method c) Ordinary least sample method	b) Ordinary least statistical method     d) Both ordinary least statistical method and     ordinary least sample method
(xi)	The values of extreme items do not influence.  Select the correct answer:	e the measure of central tendency for
	Median     Identify the conditional mean of Y.	b) Range d) Mode
	a) The expected value of Y for given values of the independent variables, X     c) The expected value of Y for given values of the independent variables, Y	<ul> <li>b) The expected value of Y for given values of the independent variables, u</li> <li>d) Both The expected value of Y for given values of the independent variables, u and The expected value of Y for given values of the independent variables, Y</li> </ul>
(xiii)	The number of independent values in a set o correct option.	
(xiv)	a) test statistic     c) level of significance     The coefficient of determination shows	b) degrees of freedom d) level of confidence . Select the correct option.
	Proportion of the variation in the dependent variable Y is explained by the independent variable X	b) Proportion of the variation in the dependent variable X is explained by the independent variable Y
	<ul> <li>c) Proportion of the variation in the dependent variable u is explained by the independent variable X</li> </ul>	d) Both Proportion of the variation in the dependent variable Y is explained by the independent variable X and Proportion of the variation in the dependent variable u is explained by the independent variable X

ed by
- 4
3 x 5=1
53 Sundays (3)
(3)
(3)
espectively. Identify (3)
(3)
, 3, 2, 5, 6, 5, 3, 4, (3)
5 x 6=3
(5)
(5)
e approach in (5)
(5)
(5)
ea-gardens in West (5) indard deviation of wing data of revenue . Evaluate the in the average
oup of patients (5) was the decayed, DMFT index value ce to allow us to imilar subjects? Let