

ICS Part 2 Statistics Chapter 14 Online Test

Sr	Questions	Answers Choice
1	r_{xy} ----- r_{yx}	A. = B. < C. > D. ≠
2	The regression equation always passes through_____.	A. (X, Y) B. (X, ȳ) C. (X̄, Y) D. (X̄, ȳ)
3	When b_{xy} is positive, then b_{yx} will be _____.	A. Negative B. Positive C. Zero D. One
4	The measures of strength of closeness of linear relationship between two variables is called	A. simple linear regression B. composite linear regression C. simple linear correlation D. composite linear correlation
5	A data points falling along a straight line is called_____.	A. Linear relationship B. Non-linear relationship C. Linear positive D. Scatter diagram
6	If $b_{yx} = 0.89$ and $b_{xy} = 0.75$, then $r =$	A. 0.89 B. 0.28 C. 0.98 D. 0.82
7	The relationship that describes the dependence of the expected value of the dependent random variable for a given value of the independent non-random variable is called	A. equation B. relation C. ratio D. regression
8	Question Image <input type="text"/>	A. 37 B. 132 C. 32 D. cannot be calculated
9	If $r = -1$, then there is	A. negative correlation B. perfect negative correlation C. no correlation D. average correlation
10	A relationship where the flow of the data points is best represented by a curve is called_____.	A. Linear positive B. Linear negative C. Linear relationship D. Nonlinear relationship
11	Question Image <input type="text"/>	A. y-intercept B. x-intercept C. slope D. none of these
12	If the value of any regression coefficient is zero, then two variable are _____.	A. Qualitative B. Correlation C. Dependent D. Independent
13	A process by which we estimate the value of dependent variable on the basis of one or more independent variable is called_____.	A. Residual B. Correlation C. Regression D. Slope
14	Regression line x on y is	
15	The straight line graph of the linear equation $Y = a + bX$, the slope will be upward if_____.	A. $b = 0$ B. $b < 0$ C. $b > 0$ D. $b \neq 0$
16	If constants are added to or subtracted from the values of the variables, the value of r	A. is negative B. is positive C. is zero

D. remains unchanged

17 The _____ regression line always passes through (\bar{X}, \bar{y}) .

- A. Opposite
- B. Estimated
- C. Estimates
- D. Random

18 The variable, that forms the basis of estimation, is called_____.

- A. Regression
- B. Regressor
- C. Regressand
- D. Estimated

19 A set of points in a rectangular coordinate system, where each point represents an observed pair of values is called

- A. least square regression
- B. scatter diagram
- C. pie graph
- D. regression coefficient

20 In simple linear regression, the number of unknown constants are:

- A. Two
- B. Three
- C. Four
- D. Five