

ICS Part 2 Statistics Chapter 14 Online Test

Sr	Questions	Answers Choice
1	In simple linear regression, the number of unknown constants are:	A. Two B. Three C. Four D. Five
2	The value of the coefficient of correlation relies between_____.	A. -1 and +1 B. 0 and 1 C. -1 and 0 D. -0.5 and + 0.5
3	The variable, whose resulting value depends upon the selected value of the independent variable is called_____.	A. Regression B. Regressor C. Regressand D. Coefficient
4	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
5	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
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	If the value of any regression coefficient is zero, then two variable are _____.	A. Qualitative B. Correlation C. Dependent D. Independent
8	r is the ----- of two regression co-efficient b_{yx} and b_{xy}	A. arithmetic mean B. geometric mean C. harmonic mean D. median
9	Question Image	B. b_{yx} C. b_{xy} D. S_p
10	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. $b \neq 0$
11	The variable that forms the basis of estimation is called	A. regression B. regressand C. regressor D. correlation
12	The estimated regression line always passes through	A. origin B. x-axis C. y-axis
13	Regression line x on y is	
14	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
15	The _____ regression line always passes through (\bar{X}, \bar{Y}) .	A. Opposite B. Estimated C. Estimates D. Random
16	$r_{xy} ----- r_{yx}$	A. = B. < C. > D. ≠

17 Question Image

A. 37
B. 132
C. 32
D. cannot be calculated

18 When b_{xy} is positive, then b_{yx} will be _____.

A. Negative
B. Positive
C. Zero
D. One

19 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

20 The estimates of the parameters $=\alpha$ and $=\beta$ are

A. μ and $=\sigma^2$
B. a and b
C. μ and π
D. χ^2 and Z
