

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 estimated regression line always passes through	A. origin C. x-axis D. y-axis
3	The variable, that forms the basis of estimation, is called_____.	A. Regression B. Regressor C. Regressand D. Estimated
4	If X and Y are independent, then $Cov(x,y) = 0$ which implies that	A. $b_{yx} = 0$ B. $b_{xy} = 0$ C. $\rho = 0$ D. $a = 0$
5	When b_{xy} is positive, then b_{yx} will be _____.	A. Negative B. Positive C. Zero D. One
6	Question Image	B. b_{yx} C. b_{xy} D. S_p
7	Regression line x on y is	
8	Question Image	A. S_{xy} B. S_{yx} C. b_{xy} D. b_{yx}
9	r_{xy} ----- r_{yx}	A. = B. < C. > D. ≠
10	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
11	If $b_{yx} = 0.89$ and $b_{xy} = 0.75$, then $r =$	A. 0.89 B. 0.28 C. 0.98 D. 0.82
12	r is the ----- of two regression co-efficient b_{yx} and b_{xy}	A. arithmetic mean B. geometric mean C. harmonic mean D. median
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	If the value of any regression coefficient is zero, then two variable are _____.	A. Qualitative B. Correlation C. Dependent D. Independent
15	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
16	The estimates of the parameters α and β are	A. μ and σ^2 B. a and b C. μ and π D. χ^2 and Z

17	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. $b \neq 0$
18	A data points falling along a straight line is called_____.	A. Linear relationship B. Non-linear relationship C. Linear positive D. Scatter diagram
19	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
20	The variable, whose resulting value depends upon the selected value of the independent variable is called_____.	A. Regression B. Regressor C. Regressand D. Coefficient
