


ICS Part 2 Statistics Chapter 14 Online Test

Sr	Questions	Answers Choice
1	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. $a = 0$
2	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. y-intercept B. x-intercept C. slope D. none of these
3	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
4	If $b_{yx} = 0.89$ and $b_{xy} = 0.75$, then $r =$	A. 0.89 B. 0.28 C. 0.98 D. 0.82
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 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
7	The regression equation always passes through_____.	A. (X, Y) B. (X, \bar{y}) C. (\bar{X} , Y) D. (\bar{X} , \bar{y})
8	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. $b \neq 0$
9	The _____ regression line always passes through (\bar{X}, \bar{y}) .	A. Opposite B. Estimated C. Estimates D. Random
10	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
11	If $r = -1$, then there is	A. negative correlation B. perfect negative correlation C. no correlation D. average correlation
12	The variable, that forms the basis of estimation, is called_____.	A. Regression B. Regressor C. Regressand D. Estimated
13	Question Image <input style="width: 100%; height: 20px;" type="text"/>	B. b_{yx} C. b_{xy} D. S_p
14	The variable that forms the basis of estimation is called	A. regression B. regressand C. regressor D. correlation
15	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

16	When b_{xy} is positive, then b_{yx} will be _____.	A. Negative B. Positive C. Zero D. One
17	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
18	Question Image 	A. S_{xy} B. S_{yx} C. b_{xy} D. b_{yx}
19	r is the ----- of two regression co-efficient b_{yx} and b_{xy}	A. arithmetic mean B. geometric mean C. harmonic mean D. median
20	r_{xy} ----- r_{yx}	A. = B. < C. > D. ≠