ICS Part 2 Statistics Chapter 14 Online Test

Sr	Questions	Answers Choice
1	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
2	The variable that forms the basis of estimation is called	A. regression B. regressand C. regressor D. correlation
3	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
4	The estimates of the parameters=α and=β are	A. μ and=σ2 B. a and b C. μ andπ D. χ2 and Z
5	r is the ---------- of two regression co-efficient b_{yx} and b_{xy}	A. arithmetic mean B. geometric mean C. harmonic mean D. median
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 r = -1, then there is	A. negative correlation B. perfect negative correlation C. no correlation D. average correlation
8	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
9	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
10	r_{xy} ---------- r_{yx}	A. = B. < C. > D. ≠
11	If X and Y are independent, then Cov(x,y) = 0 which implies that	A. b_{yx} = 0 B. b_{xy} = 0 C. ρ = 0 D. a = 0
12	Regression line x on y is	
13	Question Image	A. y-intercept B. x-intercept C. slope D. none of these
14	Question Image	A. S_{xy} B. S_{yx} C. b_{xy} D. b_{yx}
15	Question Image	B. b_{yx} C. b_{xy} D. S_p
16	Question Image	A. 37 B. 132 C. 32 D. cannot be calculated

17	The estimated regression line always passes through	A. origin C. x-axis D. y-axis
18	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
19	The variable, that forms the basis of estimation, is called_____.	A. Regression B. Regressor C. Regressand D. Estimated
20	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 relatiobship
21	A data points falling along a straight line is called_____.	A. Linear relationship B. Non-linear relationship C. Linear positive D. Scatter diagram
22	The variable, whose resulting value depends upon the selected value of the independent variable is called_____.	A. Regression B. Regressor C. Regressand D. Coefficient
23	The _____ regression line always passes through $(\bar{X}, \bar{y})$.	A. Opposite B. Estimated C. Estimates D. Random
24	If the value of any regression coefficient is zero, then two variable are _____.	A. Qualitative B. Correlation C. Dependent D. Independent
25	In simple linear regression, the number of unknown constants are:	A. Two B. Three C. Four D. Five
26	The straight line graph of the linear equation Y = a + bX, the slope will be upward it_____.	A. b = 0 B. b < 0 C. b > 0 D. b ≠ 0
27	When b_{xy} is positive, then b_{yx} will be _____.	A. Negative B. Positive C. Zero D. One
28	The regression equation always passes throught_____.	A. (X, Y) B. (X, $\bar{y}$) C. ($\bar{X}$, Y) D. ($\bar{X}$, $\bar{y}$)
29	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