ICS Part 2 Statistics Chapter 14 Online Test

Sr	Questions	Answers Choice
1	If r = -1, then there is	A. negative correlation B. perfect negative correlation C. no correlation D. average correlation
2	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
3	The estimates of the parameters=α and=β are	A. μ and=σ2 B. a and b C. μ andπ D. χ2 and Z
4	A data points falling along a straight line is called_____.	A. Linear relationship B. Non-linear relationship C. Linear positive D. Scatter diagram
5	When b_{xy} is positive, then b_{yx} will be _____.	A. Negative B. Positive C. Zero D. One
6	Question Image	A. S_{xy} B. S_{yx} C. b_{xy} D. b_{yx}
7	The variable that forms the basis of estimation is called	A. regression B. regressand C. regressor D. correlation
8	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
9	If b_{yx} = 0.89 and b_{xy} = 0.75, then r=	A. 0.89 B. 0.28 C. 0.98 D. 0.82
10	r is the ---------- of two regression co-efficient b_{yx} and b_{xy}	A. arithmetic mean B. geometric mean C. harmonic mean D. median
11	r_{xy} ---------- r_{yx}	A. = B. < C. > D. ≠
12	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
13	The _____ regression line always passes through ($\bar{X}$, $\bar{y}$).	A. Opposite B. Estimated C. Estimates D. Random
14	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
15	In simple linear regression, the number of unknown constants are:	A. Two B. Three C. Four D. Five

16	Question Image	A. 37 B. 132 C. 32 D. cannot be calculated
17	Question Image	A. y-intercept B. x-intercept C. slope D. none of these
18	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
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	If the value of any regression coefficient is zero, then two variable are _____.	A. Qualitative B. Correlation C. Dependent D. Independent
21	The regression equation always passes throught_____.	A. (X, Y) B. (X, $\bar{y}$) C. ($\bar{X}$, Y) D. ($\bar{X}$, $\bar{y}$)
22	Question Image	B. b_{yx} C. b_{xy} D. S_p
23	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
24	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
25	The variable, whose resulting value depends upon the selected value of the independent variable is called_____.	A. Regression B. Regressor C. Regressand D. Coefficient
26	The variable, that forms the basis of estimation, is called_____.	A. Regression B. Regressor C. Regressand D. Estimated
27	The estimated regression line always passes through	A. origin C. x-axis D. y-axis
28	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
29	Regression line x on y is	