

ICS Part 2 Statistics Chapter 14 Online Test

| Sr | Questions | Answers Choice |
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| 1 | r is the of two regression co-efficient b _{yx} and b _{xy} | A. arithmetic mean B. geometric mean C. harmonic mean D. median |
| 2 | In simple linear regression, the number of unknown constants are: | A. Two B. Three C. Four D. Five |
| 3 | When $b_{X\!\! y}$ is positive, then $b_{y\!\! x}$ will be | A. Negative B. Positive C. Zero D. One |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | The variable, that forms the basis of estimation, is called | A. Regression B. Regressor C. Regressand D. Estimated |
| 9 | The value of the coefficient of correlation relies between | A1 and +1 B. 0 and 1 C1 and 0 D0.5 and + 0.5 |
| 10 | The regression equation always passes throught | A. (X, Y) B. (X, \overline{y}) C. (X, Y) D. (X, \overline{y}) |
| 11 | 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 |
| 12 | 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 |
| 13 | The variable that forms the basis of estimation is called | A. regression B. regressand C. regressor D. correlation |
| 14 | If X and Y are independent, then $Cov(x,y) = 0$ which implies that | A. $b \le b \le x \le b \ge 0$ B. $b \le x \le b \ge x \le 0$ C. $\rho = 0$ D. $a = 0$ |
| 15 | Question Image | A. y-intercept B. x-intercept C. slope D. none of these |

| 16 | The variable, whose resulting value depends upon the selected value of the independent variable is called | A. Regression B. Regressor C. Regressand D. Coefficient |
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| 17 | Question Image | B. b _{yx} C. b _{yy} D. S _p |
| 18 | If the value of any regression coefficient is zero, then two variable are | A. QualitativeB. CorrelationC. DependentD. Independent |
| 19 | r _{xy} r _{yx} | A. = B. < C. > D. ≠ |
| 20 | Question Image | A. S _{xy} B. S _{yx} C. b _{xy} D. b _{yx} |