

ICS Part 2 Statistics Online Test

Sr	Questions	Answers Choice
1	A range of values used to estimate an unknown population parameter is	A. a point estimator B. An interval estimator C. an unbiased estimator D. A biased estimator
2	If the null hypothesis is false, we may accept it leading to a ----- decision	A. true B. correct C. wrong 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	The regression equation always passes through _____.	A. (X, Y) B. $(X \text{ and } y)$ C. (\bar{X}, \bar{Y}) D. $(\bar{X} \text{ and } \bar{y})$
5	The alternative hypothesis is also called:	A. Null hypothesis B. Statistical hypothesis C. Research hypothesis D. Simple hypothesis
6	A characteristic which varies in quantity from one individual to another is called a _____.	A. Association B. Correlation C. Variable D. Attribute
7	Suppose that the null hypothesis is true and it is rejected, is known as:	A. α type-I error, and its probability is β B. α type-I error, and its probability is α C. α type-II error, and its probability is α D. α type-II error, and its probability is β
8	Small sample has less than	A. 50 values B. 45 values C. 30 values D. 35 values
9	A statistical hypothesis is an assertion or conjecture about the distribution of random variables	A. one B. two C. one or more D. three
10	In the measurement of secular trend the moving averages:	A. Give the trend in a straight line B. Measure the seasonal variations C. Smooth out a time series D. None of these
11	For a least squares linear trend $\hat{y} = a + b x$,	A. $\sum y \text{ and } \sum \hat{y}$ B. $\sum \hat{y} = 0$ C. $\sum y = \sum \hat{y}$ D. none of these
12	CD-ROM is a type of	A. hard disk B. soft disk C. floppy disk D. optical disk
13	Question Image <input type="text"/>	A. y-intercept B. x-intercept C. slope D. none of these
14	$(1-\alpha)$ is called:	A. Critical value B. Level of significance C. Level of confidence D. Interval estimate

15	Question Image	<p>A. $\mu \leq 0$</p> <p>B. $\mu \geq 0$</p> <p>C. $\mu < 0$</p>
16	An example in a two-sided, alternative hypothesis is:	<p>A. $H_1: \mu < 0$</p> <p>B. $H_1: \mu > 0$</p> <p>C. $H_1: \mu \neq 0$</p> <p>D. $H_1: \mu = 0$</p>
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	<p>A. equation</p> <p>B. relation</p> <p>C. ratio</p> <p>D. regression</p>
18	The secular trend is measured by the method of semi-averages when	<p>A. time series contains yearly values</p> <p>B. trend is linear</p> <p>C. time series contains odd number of values</p> <p>D. none of these</p>
19	When the expected frequencies are very small the value of χ^2 has been	<p>A. adjusted</p> <p>B. omitted</p> <p>C. changed</p> <p>D. all of these</p>
20	Monitors, PC projectors and sound systems are	<p>A. soft copy output devices</p> <p>B. real copy output devices</p> <p>C. raw copy output devices</p> <p>D. hardcopy output devices</p>