

ICS Part 2 Statistics Chapter 13 Online Test

Sr	Questions	Answers Choice
1	The values of test statistic which separate the rejection and non rejection regions for the test are called	A. simple values B. critical values C. parametric values D. none of these
2	The alternative hypothesis is also called:	A. Null hypothesis B. Statistical hypothesis C. Research hypothesis D. Simple hypothesis
3	A statistical hypothesis is an assertion or conjecture about the distribution of random variables	A. one B. two C. one or more D. three
4	Level of significance is also called:	A. Power of the test B. Size of the test C. Level of confidence D. Confidence coefficient
5	Which of the following is not composite hypothesis?	A. $\mu < \mu_0$ B. $\mu = \mu_0$ C. $\mu > \mu_0$ D. $\mu \neq \mu_0$
6	Which error is occurred when the defendant were found guilty if, infect the defendant is innocent	A. type-I B. type-II C. no error D. both a and b
7	The alternative hypothesis always contains the sign of	A. equality B. inequality C. ratio D. proportion
8	P(type II error) is equal to:	A. α B. β C. $1 - \alpha$ D. $1 - \beta$
9	The Level of ----- of test is the maximum probability with which we are willing to a risk of type -I error	A. correction B. error C. significance D. statistics
10	The degree of confidence is equal to:	A. β B. $1 - \beta$ C. $1 - \alpha$ D. α
11	A hypothesis that specifies all the value of parameter is called:	A. Statistical hypothesis B. Simple hypothesis C. Composite hypothesis D. None of these
12	An automobile is driven on the average on more than 1600 kilometers per year, the null hypothesis is	A. $H_0: \mu = 16000$ kilometers B. $H_0: \mu \leq 16000$ kilometers C. $H_0: \mu \neq 16000$ kilometers D. $H_0: \mu > 16000$ kilometers
13	The hypothesis which is tested for possible rejection is called	A. common hypothesis B. null hypothesis C. alternative hypothesis D. wrong hypothesis
14	If $H_0: \mu < \mu_0$ and $H_1: \mu > \mu_0$ and level of significance is α then H_0 will be rejected if	A. $Z \leq -Z_{\alpha}$ B. $Z \leq -Z_{\alpha/2}$ C. $Z \leq -Z_{1-\alpha}$ D. $Z \leq -Z_{\alpha/2}$

D. z < $z_{1-\alpha/2}$

15 If critical region is located equally in both tails of the sampling distribution of test statistic, the test is called ----- test

- A. one tailed
- B. two tailed
- C. left tailed
- D. right tailed

16 $1 - \alpha$ is the probability associated with:

- A. Type-I error
- B. Type-II error
- C. Level of confidence
- D. Level of significance

17 A region for which the H_0 is rejected is called

- A. acceptance region
- B. rejection region
- C. critical region
- D. both b and c

18 If we reject H_0 when H_0 is actually true then it is

- A. type - I error
- B. type - II error
- C. type - III error
- D. type - IV error

19 Given $\mu_0 = 170$, $\bar{X} = 190$, $\sigma = 36$ and $n = 9$; which statistic is appropriate?

- A. t
- B. z
- C. χ^2
- D. F

20 A quantitative statement about a population is called:

- A. Research hypothesis
- B. Composite hypothesis
- C. Simple hypothesis
- D. Statistical hypothesis