ICS Part 2 Statistics Chapter 12 Online Test

Sr	Questions	Answers Choice
1	The following statistic are unbiased estimators:	A. The Sample mean B. S² = Σ(X - X) ²/n-1 C. The sample proportion D. All the above
2	A range of values within which the population parameter is expected:	A. Confidence interval B. Confidence coefficient C. Confidence limits D. Level of significance
3	100(1-α)% confidence interval for population proportion of success,&=nbsp;π is	A. P (L <μ < U) = 1 - α B. P (L <σ < U) = 1 - α C. P (L <π< U) = 1 - α D. P (L <P&=nbsp;< U) = 1 - α
4	If the observations are paired and the number of pairs is n, then the number of degree of freedom is equal to	A. n B. n - 1 C. 2n D. 2n - 1
5	Estimate is the observed value of an:	A. Unbiased estimator B. Estimation C. Estimator D. Interval estimation
6	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
7	If (1-α) is increased, the with of a confidence interval is:	A. Decreased B. Increased C. Constant D. Same
8	Statistical inference has two branches namely:	A. Level of confidence and degrees of freedom B. Biased estimator and unbiased estimator C. Point estimate and interval estimate D. Estimation of parameter and testing of hypothesis
9	Estimation is of two types:	A. One sides and two sides B. Type I and type II C. Point estimation and interval estimation D. Biased and unbiased
10	Small sample has less than	A. 50 values B. 45 values C. 30 values D. 35 values
11	The precision can be increased by ---------- the sample size	A. increasing B. decreasing C. changing D. ignoring
12	The probability associated with confidence interval is called:	A. Level of confidence B. Confidence coefficient C. Both A and B D. Confidence limits
13	Confidence intervals which are often used in practice are	A. 90% B. 95% C. 98% D. all of these
14	The endpoints of a confidence interval are called:	A. confidence coefficient B. Confidence limits C. Error of estimation

		D. Parameters
15	The process of making estimates about the population parameter from a sample is called:	A. Statistical independence B. Statistical inference C. Statistical hypothesis D. Statistical decision
16	If 1-α = 0.90, the value of $Z_{a/2}$ is:	A. 1.645 B. 1.96 C. 2.326 D. 2.575
17	If population proportion (P) is unknown, the standard error of the sample proportion (p) can be estimated by the formula	
18	By increasing the sample size, the precision of confidence interval is:	A. Decreased B. Increased C. Constant D. Unchanged
19	Question Image	A. biased B. unbiased C. positively biased D. none of these
20	A single value used to estimate a population value is called:	A. Interval estimate B. Point estimate C. Confidence interval D. Level of confidence