Statistical Inference MCQs

The process of drawing inferences about the population parameter.
A. Statistical Inference
B. Statistical Analysis
C. both b and c
D. None of these

Correct Option is: Statistical Inference

No. of branches of statistical inference are.
A. Three
B. Two
C. Four
D. Five

Correct Option is: Two

Estimation is the branch of.
A. Statistic
B. Statistical Method
C. Both A andB
D. Statistical Inference

Correct Option is: Statistical Inference

Testing of hypothesis is the branch of.
A. Statistical Method
B. Statistical Inference
C. Both A andB
D. None of these

Correct Option is: Statistical Method

The process of finding true but unknown value of populationparameter is called.
A. Statistical Inference
B. Estimation
C. Both B and C
D. None of these

Correct Option is: Estimation

Part of population is called.
A. Statistical Inference
B. Statistical Analysis

C. Sample
D. None of these

Correct Option is: Sample

Types of estimation are.
A. Two
B. Three
C. One
D. Four

Correct Option is: Two

The formula uses to estimate the true but unknown value of population parameter is called an.
A. Estimation
B. Estimate
C. Estimator
D. None of these

Correct Option is :Estimator

The value which is obtain by applying an estimator on sample information is known as an.
A. Estimation
B. Estimator
C. Both A&B
D. Estimate

Correct Option is: Estimate

Statistic may be an.
A. Estimator
B. Estimate
C. Both A & B
D. None of these

Correct Option is: Both A & B

The properties of an estimator are.
A. Unbiasedness
B. Sufficiency
C. Consistency
D. All of these

Correct Option is: All of these

Different method of estimation are deals with.
A. Point estimation
B. Interval estimation

C. Both A & B
D. None of these

Correct Option is: Both A & B

If expected value of an estimator is equal to its respective parameter then it is called an.
A. Biased estimator
B. Unbiased estimator
C. Estimator
D. None of these

Correct Option is: Unbiased estimator

If expected value of an estimator is greater than the parameter then estimator is called.
A. Unbiasedness
B. Positively Biased
C. Efficiency
D. None of these

Correct Option is: Positively Biased

If expected value of an estimator is equal to its respective parameter then this property known is.
A. Biasedness
B. Estimation
C. Unbiasedness
D. Both B & C

Correct Option is: Unbiasedness

If expected value of an estimator is less than the parameter then estimator is called.
A. Negatively biased
B. Positively biased
C. Only biased
D. None of these

Correct Option is: Positively biased

If the estimator utilizes all the observations of a sample then it is called a.
A. Positively biased
B. Negatively biased
C. Both A & B
D. None of these

Correct Option is: None of these

Mean square of an estimator is equal to.
A. Variance + (Bias)2

B. E(x) + (Bias)2
C. (Bias)2
D. Variance

Correct Option is: Variance + (Bias)2

Neyman Fisher Factorization theorem is also known as.
A. Theorem of sufficient estimators
B. Rao Black-well theorem
C. Estimator
D. None of these

Correct Option is: Theorem of sufficient estimators

A statistic (estimator) s(x) is sufficient for ? if conditional density is.
A. Dependent of parameter
B. Equal to parameter
C. Independent of parameter
D. None of these

Correct Option is:Independent of parameter

In sufficiency if sum of all observation of sample is sufficient for population mean then sample mean is also.
A. Unbiased
B. Non negative
C. Sufficient
D. None of these

Correct Option is: Sufficient

For sufficiency, in conditional density h(x) does not involve the.
A. Parameter
B. Estimator
C. Both A and B
D. None of these

Correct Option is: Parameter

A set of joint sufficient statistic is said to be minimal if it is the function of any other sufficient.
A. Parameter
B. Estimator
C. Statistics
D. h (x)

Correct Option is: Statistics

If conditional pdf is independent from parameter then the statistic is said to be.
A. Efficient
B. Sufficient
C. Estimator
D. None of these

Correct Option is: Sufficient

In Neyman Fisher Factorization Theorem.
A. L(x; ?) = g (S ; ?) h(x)
B. L(x) = g (& = &)
C. L(x) = g (& = &) f(x)
D. None of these

Correct Option is: L(x; ?) = g (S ; ?) h(x)

If is sufficient for " ". Then is also.
A. Complete
B. Unbiased
C. Both A and B
D. Sufficient

Correct Option is: Sufficient

With the increase in sample size if the estimate becomes closer and closer to the parameter that is called.
A. Completeness
B. Unbiasedness
C. Consistency
D. Sufficient

Correct Option is: Consistency

If X follows normal distribution. For the value of " = 1". ThenT = is an.
A. Complete
B. Unbiased
C. Both A and B
D. Sufficient

Correct Option is: Unbiased

If then the statistic "t" is called.
A. Complete
B. Unbiased
C. Both A and B
D. Sufficient

Correct Option is: Complete

If X follows normal distribution ( ) then Var ( ) =
A. n /(n+1)2
B. /(n+1)2
C. Both A and B
D. Sufficient

Correct Option is: n /(n+1)2

For a random sampling from Normal Population, s2 is a consistent estimatorof.
A. Population variance
B. population variance
C. Both A and B
D. Sufficient

Correct Option is: opulation variance

In case of unbiased estimators, the estimator having minimum variance is called an.
A. Efficient estimator.
B. Sufficient
C. Both A and B
D. Consistent

Correct Option is: Efficient estimator.

If prior density is given, for finding an estimate we use.
A. Baye's method
B. MLE
C. Both A and B
D. None of these

Correct Option is: Baye's method

If the population has two parameters, to find moment estimates we have to Calculate.
A. First two sample raw moment
B. First sample raw moment.
C. Both A and B
D. None of these

Correct Option is: First two sample raw moment

In method of least square =.
A. .
B. .
C. Both A and B
D. None of these

Correct Option is: None of these

Baye's estimator is always a function of.
A. Minimal sufficient statistic
B. Sufficient statistic
C. Both A and B
D. None of these

Correct Option is: Minimal sufficient statistic

If the numbers of unknowns are greater than no. of equations, we use the method for estimation.
A. MLE
B. Baye's method
C. Least square method for estimation.
D. None of these

Correct Option is: Least square method for estimation.

If f(X ;) = ; 0 X . We cannot find the MLE of "?" by using.
A. Real procedures
B. Baye's method
C. Least square method for estimation.
D. None of these

Correct Option is: Real procedures

For t = then =.
A. 2
B. 4
C. 0
D. None of these

Correct Option is: 0

In a uniform distribution with parameter the Yn (largest observation) is.
A. Complete
B. Consistent
C. Efficient
D. None of these

Correct Option is: Complete

In Cramer-Rao Inequality var (T) is called.
A. Complete
B. Minimum variance bond
C. Efficient
D. None of these

Correct Option is: Minimum variance bond

An estimator is UMVUE if it is unbiased, sufficient and.
A. Complete
B. Minimum variance bond
C. Efficient
D. None of these

Correct Option is: Complete

Sample median is an efficient estimator more than.
A. Complete
B. Sample mean
C. Sample proportion
D. None of these

Correct Option is: Sample mean

Useful links for the the preparation of Tests

GK Mcqs: https://www.pakistanbix.com/category/general-knowledge-mcqs/

Pak Study Mcqs: https://www.pakistanbix.com/category/pak-studies-mcqs/

Islamyat Mcqs: https://www.pakistanbix.com/category/islamic-studies-mcqs/

Current Affairs Mcqs: https://www.pakistanbix.com/category/current-affairs-mcqs/

English Mcqs: https://www.pakistanbix.com/category/english-mcqs/

English Literature Mcqs: https://www.pakistanbix.com/category/english-literature-mcqs/

Everyday Science Mcqs: https://www.pakistanbix.com/category/everyday-science-mcqs/

Physics Mcqs: https://www.pakistanbix.com/category/physics-mcqs/

Chemistry Mcqs: https://www.pakistanbix.com/category/chemistry-mcqs/

Biology Mcqs: https://www.pakistanbix.com/category/biology-mcqs/

Computer Knowledge Mcqs: https://www.pakistanbix.com/category/basic-computer-mcqs/

MS Office Mcqs: https://www.pakistanbix.com/category/ms-office-mcqs/

Pedagogy Mcqs: https://www.pakistanbix.com/category/pedagogy-mcqs/