MATHS

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPERS SET-04

Exercise

1. Choose the correct alternative : [MCQ]

Correlation coefficient lies between-

A. $(1, 0)$

B. $(-1, 0)$

C. ± 1

D. None of these.

Answer:

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2. Choose the correct alternative : [MCQ] If x and y are two independent variables then V(x - y) is equal to—

A. $V(x) + V(y)$

B. $V(x) - V(y)$

C. 0

D. None of these.

Answer:

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3. Choose the correct alternative : [MCQ] For a random variable x the relation between $E(X^2) \ \square \ E^2(x)$.

A. $\geq$

B. $\leq$

C. $=$

D. $>$

Answer:

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4. Choose the correct alternative : [MCQ] Third

central moment of normal distribution is

A. μ^3

B. 1

C. 0

D. 2

Answer:

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5. Choose the correct alternative : [MCQ] If probability of type-I error and type-II error of a

test are 0.4 and 0.25 respectively, then power

of the test is--

A. 0.6

B. 1.25

C. 0.25

D. nonr of these.

Answer:

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6. Choose the correct alternative : [MCQ] If $E(T_1) = \theta_1 + \theta_2$ and $E(T_2) = \theta_1 - \theta_2$, then the unbiased estimator of θ_2 is--

A. $T_1 + T_2$

B. $T_1 - T_2$

C. $\dfrac{T_1 - T_2}{2}$

D. None of these.

Answer:

7. Choose the correct alternative : [MCQ]

Efficiency can be measured form---

A. Mean

B. Variance

C. $\dfrac{1}{V}ariance$

D. $\dfrac{1}{M}ean$

Answer:

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8. Answer the following questions (Alternatives are to be noted): What is the value of $\sqrt{\dfrac{5}{2}}$

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9. Answer the following questions (Alternatives are to be noted): Find the coefficient:of, variation for the poisson distribution when the parameter is unity.

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10. Answer the following questions (Alternatives are to be noted): What is sample' space?

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11. Answer the following questions (Alternatives are to be noted): What do you mean by simple random sampling?

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12. Answer the following questions (Alternatives are to be noted): What is the basic difference between seasonal and cyclical fluctuation?

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13. Answer the following questions (Alternatives are to be noted): In which situation Binomial distribution will be mesokurtic.

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14. Answer the following questions (Alternatives are to be noted): What do you mean by Process control?

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15. Answer the following questions (Alternatives are to be noted): Define level of significance.

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16. Answer the following questions (Alternatives are to be noted) : Prove that $|r| = \sqrt{b_{yx} \cdot b_{xy}}$ where r and b_{xy}, b_{yx} are the correlation and regression coefficients respectively.

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17. Answer the following questions (Alternatives are to be noted) : Explain M.V.U.E.

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18. Answer the following questions (Alternatives are to be noted) : What is percentile rank

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19. Answer the following questions (Alternatives are to be noted) : Define standard error.

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20. Answer the following questions (Alternatives are to be noted): What are the two basic principles of sample survey.

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21. Answer the following questions (Alternatives are to be noted): Derive spearman's rank correlation coefficient.

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