MATHS

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPERS SET-06

Exercise

1. Answer the following questions : (Alternatives are to be noted): 'Show that, for

a Binomial distribution with parameters n and p, its mean is greater than variance.

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2. Answer the following questions : (Alternatives are to be noted): If $r_{xy} = 0.8$, find r_{uv} where $u = x + 5, v = 3 - y$.

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3. Answer the following questions : (Alternatives are to be noted): If T_1, T_2, T_3 be estimators with expectations $E(T_1) = \theta_1 + 2\theta_2$, $E(T_2) = \theta_2 + 2\theta_3$, and $E(T_3) = \theta_3 + 2\theta_1$ find unbaised estimator of $\theta_1 + \theta_2 + \theta_3$.

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4. Answer the following questions : (Alternatives are to be noted): Define Secular trend.

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5. Answer the following questions (Alternatives are to be noted): prove that $-1 \leq r \leq 1$.

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6. Answer the following questions (Alternatives are to be noted): Distinguish between SRSWOR and SRSWR.

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7. Answer the following questions : (Alternatives are to be noted): A Continuous random variable x has a density function given by $f(x) = \frac{1}{2} - ax, \quad 0 \leq x \leq 4 = 0$ else where Find (i) The constant a (ii) $p(2x + 3 > 5)$.

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8. Answer the following questions : (Alternatives are to be noted): Define (i) Level of significance (ii) Critical region.

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9. Answer the following questions : (Alternatives are to be noted): Define MVUE

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10. Answer the following questions : (Alternatives are to be noted): Derive the formula for $SE(\bar{x})$ in case of SRSWR.

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11. Write down the correct option: If $Cov(x, y) = 6$ then $Cov(x, y+4) = \ldots - - -$

A. 10

B. 40

C. 6

D. 2

Answer:

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12. Write down the correct option: Binomial distribution B(n, p) Is positively skewed when-

A. $p = \frac{1}{2}$

B. $p > \frac{1}{2}$

C. $p < \frac{1}{2}$

D. None of there

Answer:

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13. Write down the correct option: For a poisson distribution with parameter unity, its c.v. is---

A. $50\ \%$

B. $100\ \%$

C. $25\ \%$

D. $75\ \%$

Answer:

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14. Write down the correct option: If two regression lines coincides $r_{xy} is$-

A. 1

B. -1

C. $\neq 1$

D. 0

Answer:

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15. Write down the correct option: Núll hypothesis is always about-

A. Sample

B. Population

C. both (a) & (b)

D. None of these

Answer:

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16. Write down the correct option: If E(x) = 3, E{x(x-1)} = 22. Then `var (7 - 2x) is--

A. 16

B. 64

C. 32

D. None of these

Answer:

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17. Write down the correct option: $\sqrt{E(x)^2}$?

E(x), Where? is ---

A. $>$

B. $=$

C. $\leq$

D. $\geq$

Answer:

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18. Write down the correct option: The second order Central monient of a N(0, 1) distribution is--

A. 0

B. 1

C. 2

D. 3

Answer:

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19. Answer all questions: The C.V of poisson distribution is 25% fund its mean.

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20. Answer all questions: Which method would you adopt to forecast trend value in time series?

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21. Answer all questions: State the name of control chart for attribute.

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22. Answer all questions: Give an example of discrete random variable.

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