



MATHS

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPERS SET-02

Exercise

1. Choose the correct alternative : [MCQ] If the units of measurement of x and y are

respectively meter and kilogram, what is the unit of r_{xy} ?

A. $\frac{\text{meter}}{\text{kilogram}}$

B. $\frac{(\text{meter})^2}{(\text{kilogram})^2}$

C. unit free

D. meter x kilogram.

Answer:



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2. Choose the correct alternative : [MCQ] If X be a poisson variable with parameter $\lambda = 3$ then the mode/modes

A. 3,4

B. 3

C. 3,2

D. 9

Answer:



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3. Choose the correct alternative : [MCQ] The variance of number of success in a set of 16 trials cannot exceed--

A. 1.6

B. 4

C. 8

D. 3.523

Answer:



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4. Answer the following questions (Alternatives are to be noted): What do you mean by normal distribution?



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5. Answer the following questions (Alternatives are to be noted): Explain the cause of this inequality variance of binomial distribution $<$ mean of binomial distribution.



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6. Answer the following questions (Alternatives are to be noted): What is sampling fluctuation?



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7. Answer the following questions (Alternatives are to be noted): Define Null hypothesis.



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8. Answer the following questions

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



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9. Answer the following questions

(Alternatives are to be noted): State the additive model of time series.



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10. Answer the following questions (Alternatives are to be noted): Write one advantage and one disadvantage of moving average method.



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11. Answer the following questions (Alternatives are to be noted): Define quality control.



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12. Answer the following questions

(Alternatives are to be noted): For a random

variable X , show that $[E(x^2)]^{\frac{1}{2}} \geq E(x)$.



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13. Answer the following questions

(Alternatives are to be noted): Explain

probability of type II error.



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14. Answer the following questions

(Alternatives are to be noted): If $V(x) = 9$, $V(y) = 4$ and $V(x - y) = V(x)$, find the correlation coefficient between x & y .



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15. Answer the following questions

(Alternatives are to be noted): If a random variable X follows binomial distribution with

$mean = 2$ and $E(x^2) = \frac{28}{5}$ then find $P(x \neq 0)$



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