



MATHS

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPERS SET-01

Exercise

1. Choose the correct alternative : [MCQ] The principle of method of least squares is to minimise.

- A. Sum of errors
- B. Sum of squares of errors
- C. squares of errors
- D. none of these.

Answer:



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2. Choose the correct alternative : [MCQ] If for a N normal distribution the point of inflexions

are 30 and 80, then the mean of the distribution is-

A. 25

B. 55

C. 0

D. 50

Answer:



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3. Answer the following questions (Alternatives are to be noted): If x and y are two independent negative random variables with $E(xy) = 6$ and $E|x| = 3$, then find $E(y)$.



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4. Answer the following questions (Alternatives are to be noted): What is power of a test?



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5. Answer the following questions
(Alternatives are to be noted): What is
sampling distribution of a statistic?



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6. Answer the following questions
(Alternatives are to be noted): Define rational
subgroups.



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7. Answer the following questions (Alternatives are to be noted): If X is symmetric Binomial with $n = 36$. Calculate $E[x(x - 1)]$.



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8. Answer the following questions (Alternatives are to be noted): Write a short note on Percentile scaling.



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9. Answer the following questions (Alternatives are to be noted): Distinguish between standard deviation and standard error.



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10. Answer the following questions (Alternatives are to be noted): Discuss in brief the use of pearsonian chi-square (χ^2) in testing goodness of fit.



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11. Answer the following questions (Alternatives are to be noted): Distinguish between process-control and Lot control used in SQC.



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