



MATHS

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPERS SET-03



1. Choose the correct alternative : [MCQ] The numerical value of the AM of two regression coefficients---

A. can not less than $\left|r\right|$

B. cannot exceed

C. is equal to |r|

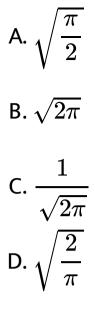
D. none of these.

Answer:

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2. Choose the correct alternative : [MCQ] Mean

deviation about mean of a N(0, 1) distribution



Answer:



3. Choose the correct alternative : [MCQ] Acceptance region of a null hypothesis is A. equal with sample space

B. complement of sample space

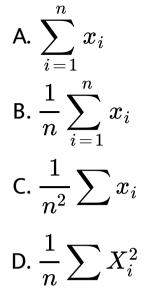
C. critical region

D. complement of critical region.

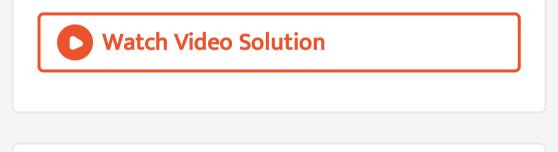
Answer:

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4. Choose the correct alternative : [MCQ] f $X - \left(\mu, \sigma^2\right)$ then an unbiased estimator of μ is-



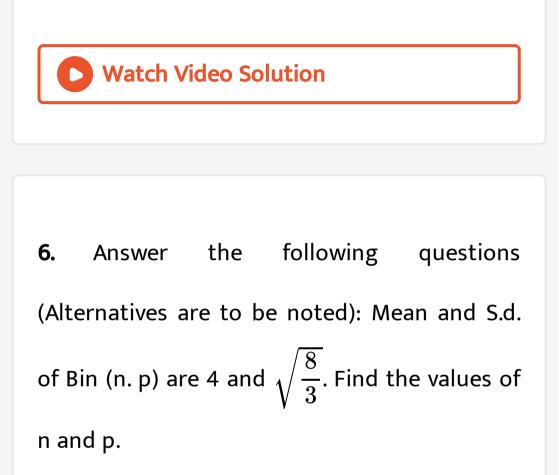
Answer:



5. Answer the following questions (Alternatives are to be noted): If `X - Bin (7,1/3),

comment on the kurtosis of the distribution of

Χ.



7. Answer the following questions (Alternatives are to be noted): Define simple random sampling without replacement.



8. Answer the following questions (Alternatives are to be noted): Distinguish

between estimate and estimator.

9. Answer the following questions (Alternatives are to be noted): What is the difference between simple and composite hypothesis?



10. Answer the following questions (Alternatives are to be noted): What do you mean by irregular component of time series data?



11. Answer the following questions (Alternatives are to be noted) : Let $X - P(\lambda)$ and 2P(X = 0) = P(X = 1). Find $P(x \ge 1)$.

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12. Answer the following questions(Alternatives are to be noted) : If X be a continuous random variable with p.d.f.

 $f(x)=k, a\leq x\leq b$

0, otherwise

Find E(x)

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13. Answer the following questions (Alternatives are to be noted): In a partially destroyed laboratory record of an analysis of correla tion data, the following results only are legible : V(x) = 9, Regressio equations : 8x - 10y + 66 = 0 and 40x - 18y = 214. Find the standard deviation of y.



14. Answer the following questions (Alternatives are to be noted): In a partially destroyed laboratory record of an analysis of correla tion data, the following results only are legible : V(x) = 9, Regressio equations : 8x - 10y + 66 = 0 and 40x - 18y = 214. Find the standard deviation of y.

15. Answer the following questions (Alternatives are to be noted): If r be the correlation coefficient between two variables x and y then prove that $-1 \le r \le 1$.

16. Answer the following questions (Alternatives are to be noted): What are the advantages of sampling over complete enumeration?



17. Answer the following questions (Alternatives are to be noted): Compare the advantage and disadvantages of matheniatical curve fitting and moving average method.