



MATHS

BOOKS - UNITED BOOK HOUSE

HIGHER SECONDARY EXAMINATION 2019



1. Find out the correct answer out of the options given against each question: Sampling

distribution is the probability distribution of

A. Statistic

B. parameter

C. sample

D. population.

Answer:



2. Find out the correct answer out of the options given against each question:S. E. of sample mean for SRSWOR scheme is

A.
$$\frac{\sigma}{\sqrt{n}}$$

B. $\frac{\sigma}{\sqrt{n}}$
C. $\frac{\sigma}{\sqrt{N}}$
D. $\frac{\sigma}{\sqrt{N}}\sqrt{\frac{N-1}{N-n}}$

Answer:

3. Find out the correct answer out of the options given against each question: If $E(T_1) = \theta_1 + 2\theta_2, E(T_2) = \theta_1 + \theta_2$, then unbiased estimator of θ_1 is-

A. $T_1 + T_2$

- B. $T_2 T_1$
- $C. 2T_2 T_1$
- D. T_1

Answer:



4. Find out the correct answer out of the options given against each question: If the correlation coefficient between x and y is 0.3, then the correlation coefficient between -x and 2y is-

A. -0.6

В. -0.3

C. 0.3

D. 0

Answer:



5. Find out the correct answer out of the options given against each question : If the mean of a binomial distribution is a positive integer, then-

A. Mean = mode

B. Mean gt mode

C. Mean It mode

D. Mean = mode

Answer:

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6. Find out the correct answer out of the options given against each question: If u = 2x,

v = - 7y and
$$r_{uv}=0.7$$
, then $r_{xy}=$

A. 0.7

B. -0.7

C. 0

D. cannot be calculated

Answer:



7. Find out the correct answer out of the options given against each question: E(x) = 4,E(y) = 3,then E(xy)=

B. 0

C. -12

D. cannot be calculated

Answer:

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8. Find out the correct answer out of the options given against each questions : Poisson distribution is always

A. positively skewed and mesokurtic

B. Positively skewed and leptokurtic

C. negatively skewed and leptokurtic

D. negatively skewed and platykurtik.

Answer:

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9. Find out the correct answer out of the options given against each question: For deriving regression equations, we minimise-

A. sum of difference of errors

B. Sum of errors

C. sum of squares of errors

D. none of these

Answer:

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10. Answer the following questions (Alternatives are to be noted) :Name two models used in Time Series analysis.



11. Answer the following questions (Alternatives are to be noted) :Write down the

names of two symmetrical distributions.



12. Answer the following questions(Alternatives are to be noted) : What areregression coefficients?





13. Answer the following questions(Alternatives are to be noted): Give twoexamples of control chart for variables.

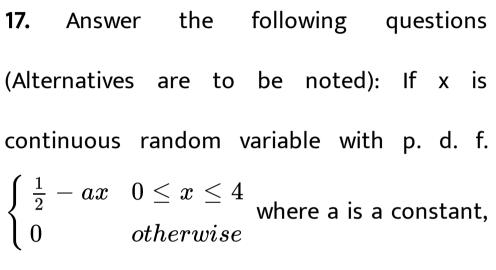
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14. Answer the following questions(Alternatives are to be noted) : Define medianfor a discrete random variable.

15. Answer the following questions (Alternatives are to be noted) : Define bias in sample survey.

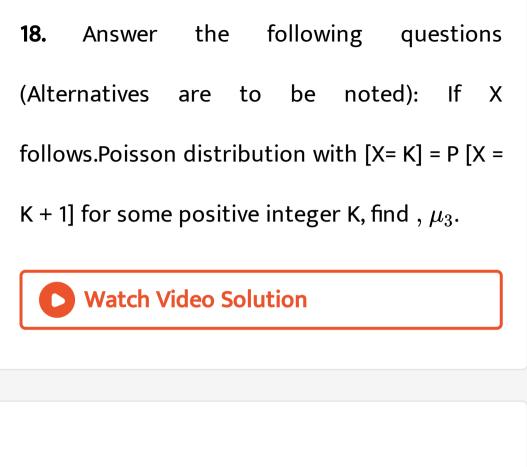
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16. Answer the following questions (Alternatives are to be noted): If two lines of regression are given by 2x + 3y = 13 and 3x + 4y= 18, find the sum of A. M. s of x and y.



then find the value of a.





19. Answer the following questions(Alternatives are to be noted): Distinguishbetween SRSWOR and SRSWR.

20. Answer the following questions (Alternatives are to be noted):Describe how you would fit an exponential trend to time series data using method of least square.