MATHS

BOOKS - UNITED BOOK HOUSE

HIGHER SECONDARY EXAMINATION 2019

Exercise

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:

 Watch Video Solution

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:

Watch Video Solution

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:

Watch Video Solution

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

B. -0.3

C. 0.3

D. 0

Answer:

Watch Video Solution

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 lt mode

D. Mean = mode

Answer:

Watch Video Solution

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:

Watch Video Solution

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

A. 12

B. 0

C. -12

D. cannot be calculated

Answer:

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:

 Watch Video Solution

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:

Watch Video Solution

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

Watch Video Solution

11. Answer the following questions (Alternatives are to be noted) :Write down the names of two symmetrical distributions.

Watch Video Solution

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

Watch Video Solution

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

Watch Video Solution

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

Watch Video Solution

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

Watch Video Solution

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.

Watch Video Solution

17. Answer the following questions (Alternatives are to be noted): If x is continuous random variable with p. d. f. $\begin{cases} \frac{1}{2} - ax & 0 \leq x \leq 4 \\ 0 & otherwise \end{cases}$ where a is a constant, then find the value of a.

Watch Video Solution

18. Answer the following questions (Alternatives are to be noted): If X follows.Poisson distribution with [X= K] = P [X = K + 1] for some positive integer K, find , μ_3.

Watch Video Solution

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

Watch Video Solution

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.

Watch Video Solution