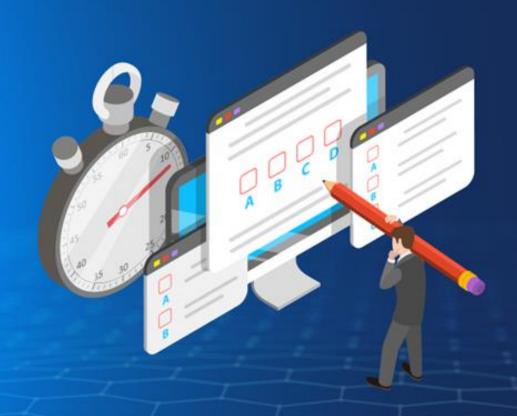
DATA AND ARTIFICIAL INTELLIGENCE



Knowledge Check



1

What is the mode of the given data 11,13,13,17,19,23,211,13,13,17,19,23,25?

- A. 11
- B. 13
- c. 17
- D. 23





What is the mode of the given data 11,13,13,17,19,23,211,13,13,17,19,23,25?

A. 11

B. 13

C. 17

D. 23



The correct answer is **B**

The value that appears most frequently; here, the number 13 is repeated multiple times.



2

A statement made about a population for testing purpose is called?

- A. Statistics
- B. Hypothesis
- C. Level of Significance
- D. Test Statistics



2

A statement made about a population for testing purpose is called?

- A. Statistics
- B. Hypothesis
- C. Level of Significance
- D. Test Statistics



The correct answer is **B**

Hypothesis



3

$E(X) = \lambda$ is used for which distribution?

- A. Binomial distribution
- B. Poisson's distribution
- C. Bernoulli's distribution
- D. Laplace distribution



3

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- A. Binomial distribution
- B. Poisson's distribution
- C. Bernoulli's distribution
- D. Laplace distribution



The correct answer is **B**

In Poisson's distribution, a positive constant called λ is used, which is the mean and variance of the distribution. The Poisson distribution predicts how many of a certain type of event will occur in a bounded area or during a given period, provided that the events occur independently and cannot occur simultaneously. The events are sometimes called "outcomes".

4

Calculate the range of the given data sets: 7,47,8,42,47,95,42,96,2

A. 6

B. 94

C. 71

D. 84





4

Calculate the range of the given data sets: 7,47,8,42,47,95,42,96,2

Α. (

B. 94

C. 7'

D. 84



The correct answer is **B**

Range = Maximum Value - Minimum Value

Here, the Maximum value in the data sets = 96, and the Minimum value = 2, therefore, Range = 96-2 = 94



5

What does critical region lead to?

- A. Acceptance of the null hypothesis
- B. Rejection of null hypothesis
- C. Depends upon whether the test is one sided or two sided
- D. Depends on the sample size





5

What does critical region lead to?

- A. Acceptance of the null hypothesis
- B. Rejection of null hypothesis
- C. Depends upon whether the test is one sided or two sided
- D. Depends on the sample size



The correct answer is **B**

Critical region leads to rejection of null hypothesis.

