

Instructions: This is a multiple-choice question. Choose 1.

1. Which of the following statements is FALSE?

- ☐ A. The sample mean and sample standard deviation are sufficient statistics.
- ☐ B. Student's t -test requires normality, but not symmetry or equal variance.
- ☐ C. The standard deviation of a continuous random variable is a sufficient statistic.
- ☐ D. The standard deviation of a continuous random variable is a sufficient statistic.
- ☐ E. The sample mean and sample standard deviation are sufficient statistics.

Answer: B

2. Which of the following statements is FALSE?

- ☐ A. μ
- ☐ B. σ^2
- ☐ C. μ and σ^2
- ☐ D. μ and σ
- ☐ E. σ^2

Answer: B

3. Which of the following is FALSE?

- ☐ A. μ
- ☐ B. σ^2
- ☐ C. μ and σ^2
- ☐ D. μ and σ
- ☐ E. σ^2

Answer: B

4. Let $X_1, X_2, \dots, X_n$ be a random sample from a normal distribution with mean μ and variance σ^2 . Which of the following is FALSE?

- ☐ A. $\bar{X}$ is a sufficient statistic for μ .
- ☐ B. $\bar{X}$ is a sufficient statistic for σ^2 .
- ☐ C. $\bar{X}$ is a sufficient statistic for μ and σ^2 .
- ☐ D. $\bar{X}$ is a sufficient statistic for μ and σ^2 .
- ☐ E. $\bar{X}$ is a sufficient statistic for μ and σ^2 .

Answer: B

5. Which of the following is FALSE? Let $X_1, X_2, \dots, X_n$ be a random sample from a normal distribution with mean μ and variance σ^2 . Which of the following is FALSE?

- ☐ A. $\bar{X}$ is a sufficient statistic for μ .
- ☐ B. $\bar{X}$ is a sufficient statistic for σ^2 .
- ☐ C. $\bar{X}$ is a sufficient statistic for μ and σ^2 .
- ☐ D. $\bar{X}$ is a sufficient statistic for μ and σ^2 .
- ☐ E. $\bar{X}$ is a sufficient statistic for μ and σ^2 .

Answer: B

6. Which of the following is FALSE? Let $X_1, X_2, \dots, X_n$ be a random sample from a normal distribution with mean μ and variance σ^2 . Which of the following is FALSE?

- ☐ A. $\bar{X}$ is a sufficient statistic for μ .
- ☐ B. $\bar{X}$ is a sufficient statistic for σ^2 .
- ☐ C. $\bar{X}$ is a sufficient statistic for μ and σ^2 .
- ☐ D. $\bar{X}$ is a sufficient statistic for μ and σ^2 .
- ☐ E. $\bar{X}$ is a sufficient statistic for μ and σ^2 .

Answer: B

Objective Chem101 Questions With Answer

S.K. Khanna; N.K. Verma; B. Kapila



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