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QUESTION 1

Failure mode, effect, and criticality analysis, (FMECA) is primarily for the purpose of

- A. Learning as much about the item as possible after qualification test.
- B. Determining the way an item will most likely fail to help obtain design and procedural safeguards against such failures.
- C. Determining, by extensive analysis, the reliability of an item.
- D. Determining the cause of a failure, by dissecting the item, to help obtain corrective action.

Correct Answer: B

QUESTION 2

If a sample size of 16 yields an average of 12 and standard deviation of 3, estimate the 95% confidence interval for the population (assume a normal distribution).

A. $10.40 \leq \mu \leq 13.60$

B. $10.45 \leq \mu \leq 13.55$

C. $10.53 \leq \mu \leq 13.47$

D. $10.77 \leq \mu \leq 13.23$

- A. Option A
- B. Option B
- C. Option C



D. Option D

Correct Answer: A

QUESTION 3

A typical use for the optical comparator would be to measure

- A. Surface finish.
- B. Contours.
- C. Depth of holes.
- D. Diameters of internal grooves.

Correct Answer: B

QUESTION 4

A normal (Gaussian) distribution curve is

- A. Bell shaped.
- B. Dome shaped.
- C. Pear shaped.
- D. Positively skewed.

Correct Answer: A

QUESTION 5

Measurement gaging is preferable to go, no-go gaging of a quality characteristic because

- A. It is more scientific.
- B. It provides the most information per piece inspected.
- C. It requires greater skills.
- D. It requires a larger sample than go, no-go gaging does.

Correct Answer: B
