



**Free Questions for CQE by vceexamstest**

**Shared by Macias on 15-04-2024**

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## Question 1

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**Question Type:** MultipleChoice

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What is the lower control limit for proportion defective if the average daily production is 5000 units and the average fraction defective is 0.02?

**Options:**

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A- 0.016

B- 0.014

C- 0

D- 0.010

**Answer:**

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B

## Question 2

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**Question Type:** MultipleChoice

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An X-bar and R chart with  $n=5$  has been plotted for some time and has demonstrated random variation. Upon review of the last 30 plot points, the expected number of runs around the centerline on the X-bar chart is expected to be approximately which of the following?

**Options:**

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- A- 4
- B- 9
- C- 12
- D- 16

**Answer:**

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D

## Question 3

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**Question Type:** MultipleChoice

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The following measurements for a sample with dimension X are representative of a process known to be in statistical control

42, 52, 64, 45, 53, 56, 70, 57, 49, 62

Which of the following values BEST approximates the upper and lower control limits of the process capability.

**Options:**

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**A-** 81 and 29

**B-** 59 and 51

**C-** 64 and 46

**D-** 70 and 42

**Answer:**

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A

## Question 4

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**Question Type: MultipleChoice**

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A bin contains 40 pills with a weight of 3.1 gm. each, 30 pills weighing 3.2 gms each and 10 pills weighing 3.3 gms each. The weight of an average pill is found from

A.  $\frac{3.1 + 3.2 + 3.3}{3}$

B.  $\frac{(3.1)(40) + 3.2(30) + 3.3(10)}{3}$

C.  $\frac{(3.1 + 3.2 + 3.3)(10 + 30 + 40)}{80}$

D.  $\frac{(3.1)(40) + 3.2(30) + 3.3(10)}{80}$

**Options:**

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A- Option A

B- Option B

C- Option C

D- Option D

**Answer:**

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D

## Question 5

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**Question Type:** MultipleChoice

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The weight of paint cans is considered

### Options:

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- A- Discrete data.
- B- Continuous data.
- C- Random data.
- D- Probability data.

### Answer:

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B

## Question 6

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**Question Type:** MultipleChoice

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The equation below represents the:

$$f(x) = \frac{1}{x\sqrt{2\pi}} \exp\left[-\frac{1}{2}\left(\frac{\ln x - \mu}{\sigma}\right)^2\right]$$

**Options:**

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- A- Lognormal probability density function.
- B- Normal probability density function.
- C- Exponential probability density function.
- D- None of the above.

**Answer:**

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D

## Question 7

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**Question Type:** MultipleChoice

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Which of the following distributions models events that have 2 possibilities on each trial?

**Options:**

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A- Normal.

B- Poisson.

C- Binomial

D- gamma.

**Answer:**

---

C

## Question 8

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**Question Type: MultipleChoice**

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The expression below is which of the following?



$$P(x) = {}_n C_r p^x q^{n-x}$$

**Options:**

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- A- General term for the Poisson distribution.
- B- General term for the Pascal distribution.
- C- General term for the binomial distribution.
- D- General term for the hypergeometric distribution.

**Answer:**

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C

## Question 9

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**Question Type:** MultipleChoice

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If a distribution is skewed to the left, the median will always be

### Options:

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- A- Less than the mean.
- B- Between the mean and the mode.
- C- Greater than the mode.
- D- An average of the mean and the mode.

### Answer:

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B

## Question 10

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### Question Type: MultipleChoice

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Periodically, a sample of 20 items are randomly selected from a population that is normally distributed, the average is computed, and plotted. Which of the following statements is correct?

- . The average of the logarithms of the values is lognormally distributed.
- . The standard deviation of the averages is equal to the standard deviation of the individuals divided by the square root of 20.
- . The variance of the averages is equal to the variance of the individuals divided by the square root of 20.

**Options:**

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A- I only

B- II only

C- I and II only

D- I and III only

**Answer:**

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B

## Question 11

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**Question Type:** MultipleChoice

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What is the standard deviation of the following data?

3.2, 3.1, 3.3, 3.3, 3.1

**Options:**

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A- 3.2

B- 0.0894

C- 0.1

D- 0.0498

**Answer:**

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B

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