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ASQ CQE

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QUESTION NO: 1

The expression below is which of the following?

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

- 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: C**QUESTION NO: 2**

According to Tchebysheff's theorem what % of measurements must lie within 2.5 standard deviations of the mean?

- A. 3/4
- B. 8/9
- C. 0.840
- D. 0.625

ANSWER: C**QUESTION NO: 3**

As a commonly used problem solving technique, which of the following would be the BEST application of a Pareto chart?

- I. To determine when to make proactive adjustments to a process.
 - II. To differentiate between major and minor problem areas.
 - III. To gather data and to design experimental controlled changes.
 - IV. To evaluate the results of other problem solving techniques upon the product or service.
- A. I and II only

- B. II and III only
- C. II and IV only
- D. I, II, III and IV

E. To determine when to make proactive adjustments to a process. ITo differentiate between major and minor problem areas.
III. To gather data and to design experimental controlled changes.
IV. To evaluate the results of other problem solving techniques upon the product or service.

ANSWER: C

QUESTION NO: 4

Two advantages of process mapping are the ability to

- I. Visualize the process being described.
- II. Discover manufacturing problems only.
- III. Discover quality problems only.
- IV. Check current processes for duplication or redundancy.

- A. I and IV only
- B. II and III only
- C. I and III only
- D. II and IV only

E. Visualize the process being described.
II. Discover manufacturing problems only.
III. Discover quality problems only.
IV. Check current processes for duplication or redundancy.

ANSWER: A

QUESTION NO: 5

The primary reason that nonconforming material should be identified and segregated is

- A. So that the cause of nonconformity can be determined.
- B. So it cannot be used in production without proper authorization.
- C. To obtain samples of poor workmanship for use in the company's training program.

D. So that responsibility can be determined and disciplinary action taken.

ANSWER: B

QUESTION NO: 6

A company is planning to completely change its employee performance, appraisal and reward system. Which of the following is NOT viable for consideration in the new system?

- A. Integrating subordinate, peer, customer, and self-evaluations with supervisory ratings.
- B. Using continuous improvement, quality and customer satisfaction as key criteria.
- C. Requiring work team or group evaluations that are equal in emphasis to individual evaluations.
- D. Requiring less frequent performance reviews, but utilizing many rating categories.

ANSWER: D

QUESTION NO: 7

A system was designed with 3 capacitors. When the system is first activated all capacitors are operating. The system continues to operate as long as at least 1 capacitor is operating. This is an example of

- A. Redundancy.
- B. A series system.
- C. An active parallel system.
- D. A standby parallel system.

ANSWER: C

QUESTION NO: 8

Which of the following statements BEST describes a bimodal distribution?

- A. This distribution shows stratified data and two distinct peaks.
- B. This distribution shows a single mode and bell shaped distribution.
- C. This distribution is truncated.
- D. This distribution has several distribution peaks.

ANSWER: A

QUESTION NO: 9

A process is normally distributed with a mean of 200 and a variance of 25. One item is randomly selected, what is the probability of this item having a value greater than 210?

- A. 0.3446
- B. 0.0228
- C. 0.0012
- D. 0.0375

ANSWER: B

QUESTION NO: 10

The power of efficiency in designed experiments lies in the

- A. Random order of performance.
- B. The sequential and cyclical procedure of conjecture to design to analysis and back to conjecture.
- C. Hidden replication.
- D. The large number of possible combinations of factors.

ANSWER: C