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Question 1

Question Type: MultipleChoice

What is the reason for using the sample inspection?

Options:

- A- testing the product is destructive
- B- there is not enough time to give 100% inspection to a batch of product
- C- human error is estimated to be as high as 20% when performing long-term repetitive testing
- D- All of the above

Answer:

D

Question 2

Question Type: MultipleChoice

What consists of taking a sample of a batch of product and using it to estimate the overall quality of the batch?

Options:

- A- Acceptance sampling
- B- Statistical sampling
- C- Analytical sampling
- D- Batch sampling

Answer:

A

Question 3

Question Type: MultipleChoice

The charts that are merely histograms that are recognized in such a way as to show the highest bar first and all others in descending order from high to low are known as:

Options:

- A- Cause-and-effect charts
- B- Process flowcharts
- C- Scatter-plots
- D- Pareto charts

Answer:

D

Question 4

Question Type: MultipleChoice

A control chart for averages and ranges tracks which critical characteristics of a frequency distribution?

Options:

- A- center and spread

- B- control and tolerance
- C- specification limit and center
- D- shape and spread

Answer:

A

Question 5

Question Type: MultipleChoice

What attempts to prevent the production of defects by showing that when the standard deviation increases there is an assignable cause for variation?

Options:

- A- Process capability
- B- Process variation
- C- Process control

D- Process value

Answer:

C

Question 6

Question Type: MultipleChoice

The process capability index combines:

Options:

- A- process spread and the tolerance into one index
- B- process center and the statistical control into one index
- C- process shape and the tolerance into one index
- D- process value and the statistical control into one index

Answer:

A

Question 7

Question Type: MultipleChoice

Processes can produce defects in which way?

Options:

A- having too big a spread

B- by a shift in the mean

C- Both A & B

D- Neither A nor B

Answer:

C

Question 8

Question Type: MultipleChoice

The capability of the process is a measure of specifications limit.

Options:

A- Process center

B- Mean process

C- Process tolerance
compared to the

D- Process spread

Answer:

D

Question 9

Question Type: MultipleChoice

A tool may shift, a gauge may move, a machine may wear, or an operator may make a mistake, there is a specific reason for these causes of variation, which is called:

Options:

- A- Flexible variation
- B- Convertible variation
- C- Assignable variation
- D- Transferable variation

Answer:

C

Question 10

Question Type: MultipleChoice

To detect the presence of assignable causes of variation is the objective of:

Options:

- A- Analytical cost assessment
- B- Statistical process control
- C- Critical process control
- D- Frequency variation control

Answer:

B

Question 11

Question Type: MultipleChoice

The cost associated with checking and auditing quality in the organization is called:

Options:

- A- Assessment cost

- B- Appraisal cost
- C- Testing cost
- D- Evaluation cost

Answer:

B

Question 12

Question Type: MultipleChoice

The cost of avoiding trouble by doing the job right in the first place is known as:

Options:

- A- Prevention cost
- B- Deterrence cost
- C- Production cost
- D- Anticipation cost

Answer:

A

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