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Question 1

Question Type: MultipleChoice

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?

Options:

A- 0.3446

B- 0.0228

C- 0.0012

D- 0.0375

Answer:

B

Question 2

Question Type: MultipleChoice

A process has been experiencing problems lately. The operators charting the process have identified the cause to be due to a change in incoming materials. This problem is

Options:

A- Attributed to purchasing.

B- A special cause.

C- A common cause.

D- A normal event.

Answer:

B

Question 3

Question Type: **MultipleChoice**

Which of the following control charts are more efficient than an X-bar chart at detecting small shifts in the mean?

. CUSUM.

. EWQR.

. EWMA.

Options:

A- I only

B- II only

C- III only

D- I and III only

Answer:

D

Question 4

Question Type: **MultipleChoice**

What percentage of the area under the standard normal curve is included within (+/-) 1.5 standard deviations from 0?

Options:

A- 0.8664

B- 0.7500

C- 0.6680

D- 0.9332

Answer:

A

Question 5

Question Type: **MultipleChoice**

A "p" chart

Options:

A- Can be used for only one type of defect per chart.

B- Plots the number of defects in a sample.

C- Plots either the fraction or percent defective in order of time.

D- Plots variations in dimensions.

Answer:

C

Question 6

Question Type: MultipleChoice

Compute the upper control limit for an s chart, based on a sample size of 10, if the process is in control with a mean of 40 and a sample standard deviation of 7.

Options:

A- 11.7

B- 13.3

C- 15.7

D- 21

Answer:

A

Question 7

Question Type: MultipleChoice

Select the incorrect statement from among the following. The IDs of a certain piece of tubing are normally distributed with mean 1.00". The proportion of tubing with IDs less than 0.90 is

Options:

A- Less than the proportion of Ids greater than 0.90

B- Less than 50 percent.

C- Less than the proportion with IDs greater than 1.10

D- Less than the proportion with IDs greater than 1.00

Answer:

C

Question 8

Question Type: MultipleChoice

An X-bar and R chart was prepared for an operation using twenty samples with five pieces in each sample; X-bar was found to be 33.6 and R-bar was 6.20. During production, a sample of five was taken and the pieces measured 36, 43, 37, 25, and 38. At the time, this sample was taken:

Options:

A- Both the average and range were within control limits.

B- Neither the average nor range were within control limits.

C- Only the average was outside control limits.

D- Only the range was outside control limits.

Answer:

D

Question 9

Question Type: MultipleChoice

When using a control chart, a point plotting within the limits on the chart is

Options:

A- The equivalent of type I error.

B- The equivalent of type II error.

C- The equivalent of accepting the hypothesis that the process is in control.

D- The equivalent of not rejecting the hypothesis that the process is in control.

Answer:

D

Question 10

Question Type: MultipleChoice

You have been asked to sample a lot of 500 units from vendor whose past quality has been about 2% defective. A sample of 40 pieces is drawn from the lot and you have been told to reject the lot if you find two or more parts defective. What is the probability of finding two or more parts defective?

Options:

A- 0.953

B- 0.809

C- 0.191

D- 0.047

Answer:

C

Question 11

Question Type: **MultipleChoice**

A single sampling plan calls for a sample size of 80 with an acceptance number of five and a rejection number of six If the quality of the submitted lots 10 percent defective. then the percent of lots expected to be accepted in the long run is approximately.

Options:

A- 6%

B- 10%

C- 20%

D- 30%

Answer:

C

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