Free Questions for ICBB

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Question 1

Question Type: MultipleChoice

A Full Factorial experiment using a 2 level 4 factor approach has been proposed to test the viability of an extrusion machine experiment. How many treatment combinations will this approach involve?

Options:

A- 8

B- 16

C- 32

D- 64

Answer:

B

Question 2

Question Type: MultipleChoice

Using this partial Z Table, how many units from a month's production run are expected to not satisfy customer requirements for the following process?

Upper specification limit: 8.4 Lower specification limit: 4.7 Mean of the process: 6.2 Standard Deviation: 2.2 Monthly production: 360 units

Options:

A- 8

B- 13

C- 28

D- 57

Answer:

D

Question 3

Question Type: **MultipleChoice**

When analyzing the behavior of our process to assess customer satisfaction we are concerned about both the variation such that it stays within the spec limits and how well the Mean is _____ the process requirements.

Options:

A- Balanced against

B- Over and above

C- Twice as great as

D- Centered relative to

Answer:

D

Question 4

Question Type: **MultipleChoice**

If a Belt needed to model the data for the number of weaves in section of carpet fabric she would use the _____ Distribution approach.

Options:

A- Poisson

B- Extended

C- Exponential

D- Weibull

Answer:

A

Question 5

Question Type: **MultipleChoice**

Use this data to calculate the Z Score. Average of: 92, Standard Deviation: 2, Upper Spec Limit: 101

Options:

A- 0.75

B- 1.5

C- 2.25

D- 4.50

Answer:

D

Question 6

Question Type: MultipleChoice

A dock worker for a feed supplier was tasked with assuring the proper weight in the feed bags as they left the dock. One of the columns listed the range of weight of the bags included in the studies. This required plotting a Histogram of the weight of the bags. While drawing the Histogram the x-axis contained a certain scale of data. Pick the scale of data that is appropriate for Histograms.

Options:

A- Ordinal Scale Data

B- Interval Scale Data

C- Nominal Scale Data

D- Ration Scale Data

Answer:

B

Question 7

Question Type: MultipleChoice

One of the methods of testing a Measurement System is to have at least two people take multiple readings from the same instrument and of the same sample set to judge the Repeatability and Reproducibly. This approach is called a _____ study.

Options:

A- Correlation Analysis

B- Gage R & R

C- Bimodal

D- Dual Attribute

Answer:

B

Question 8

Question Type: MultipleChoice

Of the various types of data shown which is NOT representative of Variable Data.

Options:

A- Child's height is 4 foot 3 inches

B- Three employees wore hard hats

C- Car burned 2.7 gallons of gasoline

D- Train was going 140 kilometers per hour

Answer:

B