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Six Sigma Green Belt

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QUESTION 1

Create an operational definition for "12 pound bar" that results in measurement data.

Correct Answer: Check the answer in explanation.

Criteria: Use a digital scale to weigh a bar.

Test: Select a particular bar and put it on the digital scale. Record the digital readout.

Decision: Use bar based on digital readout.

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Distributions occur	r when data o	comes from se	veral sources th	at are supp	osed to be the	same vet are not

- A. Skewed
- B. Bimodal
- C. Gaussian
- D. Tri-peaked

Correct Answer: A

QUESTION 3

Create an operational definition for "12 pound bar" that results in attribute data.

Correct Answer: Check the answer in explanation.

Criteria: Select a bar from inventory. Place it on a digital scale. If the digital readout is between 11.999 and 12.001, inclusive, then the bar is classified as 12 pounds. If the digital readout is not between 11.999 and 12.001, inclusive, then the

bar is classified as not 12 pounds.

Test: Select a particular bar and put it on the scale. Record the digital readout. Decision:

If 11.999 ? digital readout ? 12.001, then bar = 12 pounds.

If digital readout 12.001, then bar? 12 pounds.

QUESTION 4

A technique used to measure the degree of interdependence between two random variables is:

A. Regression analysis



- B. Hypothesis testing
- C. Correlation analysis
- D. Sampling

Correct Answer: C

QUESTION 5

In order for value flow analysis to be effective, a team must take which of the following steps first?

- A. Define the value stream
- B. Eliminate backlogs in the value stream
- C. Identify overlapping functions in the value stream
- D. Identify specific work practices within the value stream

Correct Answer: A

QUESTION 6

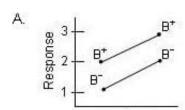
Which statement(s) are correct for the Regression Analysis shown here? (Note: There are 2 correct answers).

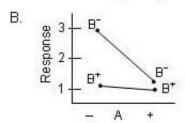
- A. This Regression is an example of a Multiple Linear Regression.
- B. This Regression is an example of Cubic Regression.
- C. %Cu explains the majority of the process variance in heat flux.
- D. Thickness explains over 80% of the process variance in heat flux.
- E. The number of Residuals in this Regression Analysis is 26.

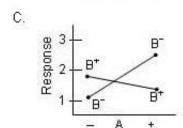
Correct Answer: AD

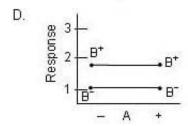
QUESTION 7

Which of the following graphs represents a factorial experiment with the strongest interaction?









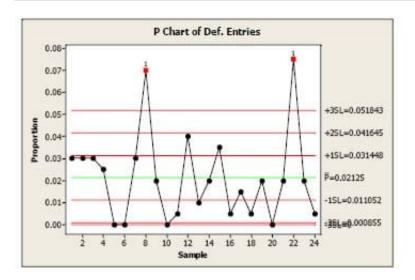
A. B. C. D.

Correct Answer: C

QUESTION 8

Use Minitab to construct a control chart for the above data.

Correct Answer: Check the answer in explanation.



QUESTION 9

When an inspection process rejects conforming product, what type of error is being made?

- A. ?
- B. ?
- C. ?
- D. H0

Correct Answer: A

QUESTION 10

When looking at a distribution graph, the Mean is defined as the _____

- A. Average based on the sample size
- B. Aggression measured
- C. Total sample size
- D. Measurement based off a quarter of the sample size

Correct Answer: A

QUESTION 11



Examples of Mistake Proofing for a laptop computer include which of these? (Note: There are 2 correct answers). A. USB connection for a mouse B. Open/Close button for CD Drive C. Battery alignment pins D. On/Off switch for computer Correct Answer: AC **QUESTION 12** Which element of waste best describes "the unnecessary movement of materials and/or goods"? A. Overprocessing B. Motion C. Conveyance D. Correction Correct Answer: C **QUESTION 13** Customers to these decision points as CTQ\\'s which stands for ______. A. Cost of the quantity B. Conscious thought qualities C. Conspicuous time quandaries

QUESTION 14

D. Critical-to-quality

Correct Answer: D

The critical path for a project is best described as the

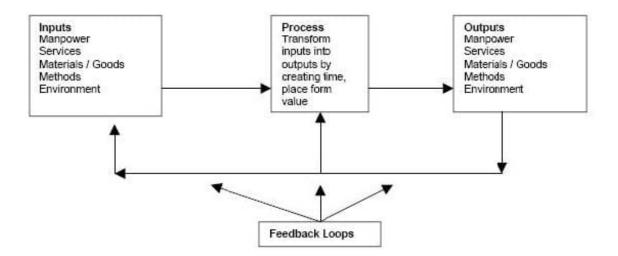
- A. sequence of steps with the highest costs
- B. tasks in the project that have the highest risk of failure
- C. sum of the tasks with the shortest time requirements
- D. longest path from the start to the completion of the project

Correct Answer: D

QUESTION 15

Define a process. Draw a picture.

Correct Answer: A process is the vehicle for transforming inputs into outputs, see figure below. Feedback loops are used to move data to appropriate points in the process for decision making purposes.



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