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QUESTION NO: 1

Multiple Linear Regressions (MLR) is best used when which of these are applicable? (Note: There are 3 correct answers).

- A. Non-linear relationships between the inputs X's and output Y
- B. Uncertainty in the slope of the linear relationship between an X and a Y
- C. Relationships between Y (output) and more than one X (Input)
- D. Preventing the use of a Designed Experiment if unnecessary
- E. We assume that the X's are independent of each other

ANSWER: C D E

QUESTION NO: 2

Measurement System Analysis is a procedure used to quantify all _____ in the method or system used for taking measurements.

- A. Totals
- B. People involved
- C. Variation
- D. Summations

ANSWER: C

QUESTION NO: 3

Select all the statements that are true after reviewing the Capability Analysis shown here. (Note: There are 4 correct answers).

- A. The process is out of Control.
- B. The process is properly assumed to be a Normal process.
- C. The Mean of the process moving range is 1.78.
- D. This Capability Analysis used subgroups.
- E. Majority of the dimensional values are outside of the tolerance than within.

ANSWER: B C D E

QUESTION NO: 4

Long-term Data represents all the variation that one can expect within the subject process.

- A. True
- B. False

ANSWER: A

QUESTION NO: 5

The Central Limit Theorem helps us understand the _____ we are taking and is the basis for using sampling to estimate population parameters.

- A. Analysis
- B. Kurtosis
- C. Risk
- D. Route

ANSWER: C

QUESTION NO: 6

Examples of a Visual Factory include which of these? (Note: There are 2 correct answers).

- A. White outlines on floor for proper inventory placement
- B. Documented procedures with a numerical outline
- C. Bad/Good indications of gauge readings with red and green outlines
- D. Implementing a defect inspection device

ANSWER: A C

QUESTION NO: 7

Hypothesis Tests determine the probabilities of differences between observed data and the hypothesis being solely due to chance. This is determined based on the result of the _____.

- A. Random acts
- B. P-values
- C. Standard Deviations
- D. R-values

ANSWER: B

QUESTION NO: 8

Those who are trained to the skill levels of a Black Belt are typically utilized to apply Lean Six Sigma methodologies what percentage of their time?

- A. 25%
- B. 50%
- C. 75%
- D. 100%

ANSWER: D

QUESTION NO: 9

Significant variation in process performance is a consequence of several causes that can be classified using which of the terminologies shown. (Note: There are 2 correct answers).

- A. Common
- B. Random
- C. Uneducated
- D. Special
- E. Vital

ANSWER: A D

QUESTION NO: 10

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.

ANSWER: A D