LSSMBB^{Q&As}

Lean Six Sigma Master Black Belt

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QUESTION 1

In analyzing some data, you first try multiple linear regression with all the factors and with interactions

(example: Factor A times Factor B is interaction AB)

You obtain a multiple regression equation of the form:

Response = 15 + .13 A - .30 B - .02 C - .00001 AB + .0000004 AC - .00000013 BC +.000000 ABC.

The p-values for most of the factors and interactions are between 0 and .05, except interactions BC and

ABC, which have p-values between .4 and .9.

Which of the following approaches might be appropriate to simplify the equation?

A. Drop all factors with negative coefficients.

B. Drop factors BC and ABC and rerun the multiple linear regression.

C. Drop factors B and C and rerun the multiple linear regression.

D. Drop factors B and C and rerun the multiple linear regression.

Correct Answer: B

QUESTION 2

A Non-parametric Test should be used if just one distribution is not Normal out of the two or more gathered.

A. True

B. False

Correct Answer: A

QUESTION 3

Accuracy can be assessed in several ways and a fairly accurate means of measurement is visual comparison.

A. True

B. False

Correct Answer: B

QUESTION 4

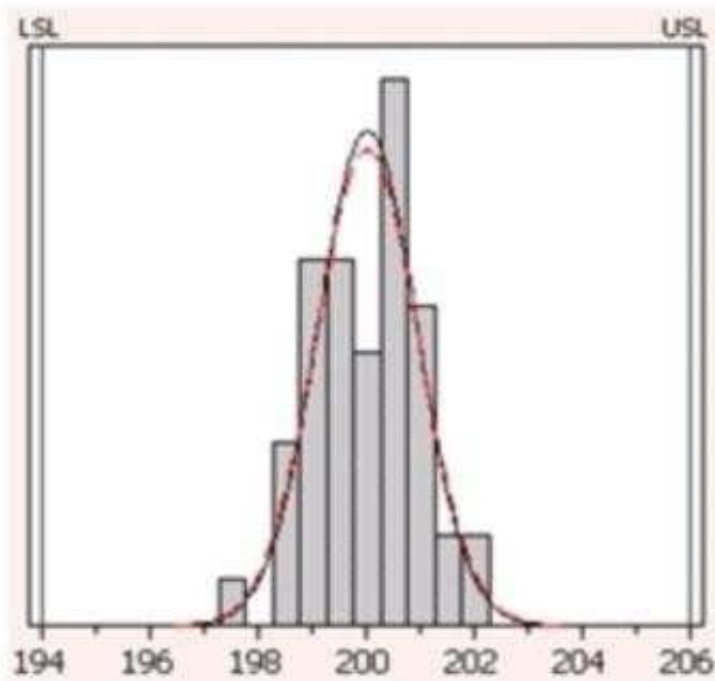A(n) _____ is best used to compare a Machine 1 average quality characteristic to the same quality

characteristic of Machine 2.

A. F test

B. 1-Sample t-test

C. 2-Sample t-test

D. ANOVA test

Correct Answer: C

QUESTION 5

A person owns the following process with a process target of 200. The Cp of the process is 2.0. Mean of the process is 200. What is the Cpk?

A. Cpk=2.0

B. Cpk=1

C. Cpk=1.5

D. Cpk=2.5

Correct Answer: A