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Six Sigma Black Belt Certification - CSSBB

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### QUESTION 1

An example of the waste of mismanaged Inventory is \_\_\_\_\_.

- A. Capital costs of money
- B. Value decrease from aged inventory
- C. Cost of storage space
- D. All of these answers are correct

Correct Answer: D

### QUESTION 2

Fractional Factorial Designs are used to analyze factors to model the output as a function of inputs if Hypothesis Testing in the Analyze Phase was inadequate to sufficiently narrow the factors that significantly impact the output(s).

- A. True
- B. False

Correct Answer: A

### QUESTION 3

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

#### Regression Analysis: Turbine Output versus Air-Fuel Ratio, % steam, ...

The Regression Equation is

TurbineOutput = 16.5 + 3.21 Air-Fuel Ratio + 0.386 % methane  
+ 0.0166 SteamExitTemp

Predictor	Coef	SE Coef	T	P
Constant	16.488	2.918	5.65	0.000
Air-Fuel Ratio	3.2148	0.2377	13.52	0.000
% methane	0.38637	0.07278	5.31	0.000
SteamExitTemp	0.016576	0.004273	3.88	0.004

S = 0.508616 R-Sq = 98.6% R-Sq(adj) = 98.2%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	3	170.003	56.668	219.06	0.000
Residual Error	9	2.328	0.259		
Total	12	172.331			

Source	DF	Seq SS
Air-Fuel Ratio	1	159.048
% methane	1	7.062
SteamExitTemp	1	3.892

- A. The air-fuel ratio explains most of the TurbineOutput variation



- B. The Regression explains over 98% of the process variation
- C. This Multiple Linear Regression has three statistically significant independent variables
- D. If the air-fuel ratio increases by 1, the TurbineOutput more than triples
- E. The SteamExitTemp explains the most variation of the TurbineOutput

Correct Answer: DE

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#### QUESTION 4

Production Line 1 is able to complete 500 units per shift. Production Line 2 is able to finish 1,500 units per shift. Production Line 2 is 3 times faster than Production Line 1. This analysis is an example of \_\_\_\_\_ Scale Data.

- A. Nominal
- B. Ratio
- C. Ordinal
- D. Interval

Correct Answer: B

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#### QUESTION 5

A Full Factorial experiment using a 3 level 3 factor approach has been proposed to test the viability of an extrusion machine experiment. How many treatment combinations will this approach involve?

- A. 6
- B. 9
- C. 27
- D. 54

Correct Answer: C

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