

# **Apmg International Lean Six Sigma Black Belt**

**APMG International Certified Lean Six Sigma Black Belt -  
Foundation (Black Belt) Practice Exam**

**Questions And Answers PDF Format:**

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*Version* = Product



# Latest Version: 6.0

## Question: 1

If in an experiment all possible variable pairs sum to zero the design is Orthogonal.

Response:

- A. True
- B. False

**Answer: A**

## Question: 2

The 5S approach utilized by a Belt to separate necessary from unnecessary items and frequently used items from infrequently used items is known as?

Response:

- A. Sustaining
- B. Sorting
- C. Shining
- D. Standardizing

**Answer: B**

## Question: 3

Which tool is used to compare more than two sample proportions with each other?

Response:

- A. 2 sample T-test
- B. Mood's Median
- C. Mann-Whitney
- D. Contingency Tables

**Answer: D**

## Question: 4

A 2 Sample t-test has several assumptions, which of the following is one of those key assumptions?  
Response:

- A. The variables are independent
- B. Data is non-normally distributed
- C. The underlying distribution is binomial
- D. Variances are unequal

**Answer: A**

### Question: 5

Much of the Six Sigma methodology is used to identify and remove causes for \_\_\_\_\_.  
Please choose the correct answer.  
Response:

- A. Process Variation
- B. Material Costs
- C. Excess Inventory
- D. Lost Sales

**Answer: A**

### Question: 6

Special Cause Variation falls into which two categories?  
Response:

- A. Natural & Unnatural
- B. Short Term & Long Term
- C. Assignable & Pattern
- D. Attribute & Discreet

**Answer: C**

### Question: 7

A concept that addresses the consistency of process workers is called \_\_\_\_\_.  
Response:

- A. Supervising
- B. Visual Factory

- C. Standard Operating Procedures
- D. Performance Drivers

**Answer: C**

### Question: 8

"A calculated time frame that matches customer demand" is a definition of what Lean Principles term?  
Response:

- A. Value Stream
- B. Kaizen event
- C. Takt time
- D. Kanban

**Answer: C**

### Question: 9

In a two-level full factorial DOE with four factors, how many runs should there be?  
Response:

- A. 16
- B. 2
- C. 8
- D. 4

**Answer: A**

### Question: 10

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade.

The purchasing manager is depending on the Belt's effort requiring that the average cost of an internal critical raw material component be less than or equal to \$4,200 in order to stay within budget.

Using a sample of 35 first article components, a Mean of the new product upgrade price of \$4,060, and a Standard Deviation of \$98 was estimated.

Select the answer that best states the Practical Problem.

Response:

- A. If the average cost per component is \$4,200 or less, then the purchase manager will introduce the new product upgrade with new components.

- B. If the average cost per component is greater than \$4,200, then the purchase manager will introduce the new product upgrade with new components.
- C. Only if the average cost per product upgrade is \$4,060, will the purchase manager introduce new product upgrades with new components.
- D. If the average cost per new product upgrade is less than \$180, then the purchase manager will introduce the new product upgrade with new components.

<b>Answer: A</b>
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