Financial

CSSGB

Certified Six Sigma Black Belt

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**QUESTION: 174**
Positional, cyclical, and temporal variations are most commonly analyzed in

A. SPC charts  
B. multi-vari charts  
C. cause and effect diagrams  
D. run charts

**Answer:** B

**QUESTION: 175**
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

**Answer:** A

**QUESTION: 176**
When an inspection process rejects conforming product, what type of error is being made?

A. $\alpha$  
B. $\beta$  
C. $\sigma$  
D. H0

**Answer:** A

**QUESTION: 177**
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

Answer: D

QUESTION: 178
Which of the following graphs represents a factorial experiment with the strongest interaction?

Answer: C

QUESTION: 179
Statistical process control (SPC) is best defined as the use of

A. Pareto charts to understand and control a process
B. inputs to control critical and complex processes
C. statistical methods to identify and remove manufacturing errors
D. statistical methods to understand and control a process

**Answer:** D

**QUESTION:** 180
A measurement system analysis is designed to assess the statistical properties of

A. gage variation  
B. process performance  
C. process stability  
D. engineering tolerances

**Answer:** A

**QUESTION:** 181
When calculating the Cp index, what does the standard deviation represent in the formula?

\[ CP = \frac{USL - LSL}{6\sigma} \]

A. The tolerance interval  
B. The confidence interval for the result  
C. The range of the process  
D. The variance of the index

**Answer:** C

**QUESTION:** 182
Show the formula you used to estimate the process standard deviation.

**Answer:**

\( \frac{R}{d2} \)
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