Assignment - 02

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2018-09-05, 23:59 IST.

1) Which of the following statements is / are TRUE?
   0 points
   I. Probability distribution functions are only for continuous events.
   II. For the discrete case, the probability distribution is termed as Probability Mass Function (PMF).
   III. For the continuous case, the probability distribution is termed as Probability Density Function (PDF).

   - Both I and II
   - Only II
   - Only III
   - All statements are True

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Both I and II

2) The probability distribution which shows the sum of probability up to that point is termed as
   1 point
   - Probability Mass Function (PMF).
   - Cumulative Distribution Function (CDF).
   - Probability Density Function (PDF).
   - Normal Distribution.

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Cumulative Distribution Function (CDF).

3) ANALYZE phase - includes
   1 point

   - Probability Mass Function (PMF).
   - Cumulative Distribution Function (CDF).
   - Probability Density Function (PDF).
   - Normal Distribution.

   No, the answer is incorrect.
 Accepted Answers:  
*Identify Vital Project X's and statistically validate them*

4) After defining the problem, someone following the Six Sigma process should:

- measure the problem
- analyze the results
- improve the process
- implement the plan

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
* measure the problem*

5) Identify the INCORRECT option.

- "Measure" involves collection of data relating to quality, cost, throughput time etc.
- "Analyze" uses data collected from previous step to understand cause-and-effect relationship and to identify sources of variability.
- "Define" imposes creative thinking to about the specific change that can be made in the process.
- "Control" completes all remaining project and to hand off the improved process to the owner along with a process control plan.

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
* "Define" imposes creative thinking to about the specific change that can be made in the process.*

6) DMAIC is a structured problem-solving methodology that can be used for

- Cycle time reduction
- Throughput improvement
- Reduce Variability

- Only I
- I, II and III
- I and II
- II and III

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
*I, II and III*

7) DMADV differs from DMAIC because DMADV is used for customer focused services like product improvement, product adjustment or new product development where as DMAIC is focused on improving an existing process, rather than creating a new product or process like DMADV. The above statement is:

- True
- False
- Cannot be said deterministically
- None of these
8) Six sigma implementations can be divided into three generations. Which of the following option is INCORRECT?

- The first generation focused on defect elimination and variability reduction.
- Second generation mainly focused on integrating the above with improved business performance through cost reduction.
- Third generation is marked by focus on creating value throughout the organization and for its stakeholders.
- All options are FALSE.

No, the answer is incorrect.
Score: 0
Accepted Answers: True

9) Which of the following is NOT True for Design for Six Sigma (DFSS)?

- DFSS is used for new product development.
- DMAIC yields products and services that provide great customer satisfaction and increased market share than DFSS.
- VoC (Voice of Customer) is used in DFSS for identification of new products.
- Unlike its traditional Six Sigma/DMAIC predecessors, which are usually focused on solving existing manufacturing issues, DFSS aims at avoiding manufacturing problems by taking a more proactive approach to problem solving and engaging the company efforts at an early stage to reduce problems that could occur.

No, the answer is incorrect.
Score: 0
Accepted Answers: DMAIC yields products and services that provide great customer satisfaction and increased market share than DFSS.

10) Improving quality through small, incremental improvements is a characteristic of what type of quality management system?

- Just-in-time
- Six Sigma
- Kaizen
- Total Quality Management

No, the answer is incorrect.
Score: 0
Accepted Answers: Kaizen