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Six Sigma - - Unit 11 - Week 10

4) Indian Cricket Association runs a mail-order business for cricket kit equipment. Annual **1** point demand for cricket bat is 16000. The annual holding cost per unit is Rs 150.00 and the cost to place an order is Rs 3000.00. What will be best quantity to order for maximum profit?

600

- 700
- 800
- 900

No, the answer is incorrect. Score: 0

Accepted Answers: 800

5) Which of the following is a 4-level array in the Taguchi's Orthogonal Array Table?

 $L_4(2^3)$ $L_27(3^13)$ $L_25(5^6)$ $L_16(4^5)$

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

 $L_16(4^5)$

6) A push/pull view of the supply chain categorizes processes based on whether they are **1** point initiated in response to a customer order (pull) or in anticipation of a customer order (push). This view is very useful when considering strategic decisions relating to supply chain design.

True
 False
 No, the answer is incorrect.

Score: 0

Accepted Answers: True

7) For a sample of data given below what will be the SN ratio when response is to be **1** point maximized by Taguchi?

2, 5, 7, 11, 14, 18, 21, 24, 26, 29, 30, 34, 37

- 0 15.873
- 0 16.358
- 0 16.478
- None of these

No, the answer is incorrect. Score: 0

Accepted Answers: 15.873

8) What are Taguchi's contributions?

- Quality Engineering Philosophy Targets and Loss functions
- Methodology System, Parameter, Tolerance design steps
- Experimental Design use of Orthogonal arrays
- All are correct

1 point

f 1 pc

Six Sigma Unit 11 - Week 10 No, the answer is incorrect.	
Accepted Answers: All are correct	
9) The cost of scrapping a part is Rs 13.00 when it deteriorates from a target by ±0.25 mm. hat will be the quality loss coefficient if the target value for the product's response is 1.5 mm?	1 poi
8.32	
16.54	
29.92	
35.46	
No, the answer is incorrect.	
8.32	F
10)Which is not an assumption taken while calculating Economic Order Quantity (EOQ)?	1 poi
The ordering cost is constant.	
The rate of demand is random.	
The lead time is fixed.	
igodot The replenishment is made instantaneously; the whole batch is delivered at once.	
No, the answer is incorrect. Score: 0	
Accepted Answers: The rate of demand is random.	
11)A great deal of inventory piles up along the supply chain due to	1 poi
 Good quality of suppliers – production may go rapidly. Poor management of logistics and not monitoring the lead time. Machine breakdown resulting from poor quality culture causing production interruption. Quality of finished products may be high causing no need to inspect and waist time. 	
No, the answer is incorrect. Score: 0	

Poor management of logistics and not monitoring the lead time. Machine breakdown resulting from poor quality culture causing production interruption.

12)Taguchi focused on off-Line Quality Control. What is the meaning of off-Line Quality Control? 1 point

- A commitment to quality that goes beyond internal company issues to suppliers and customers.
- None of these.
- Improving quality and reducing costs in the product or process at the production stage.
- Improving quality and reducing costs in the product or process at the design stage.

No, the answer is incorrect. Score: 0

Accepted Answers:

Improving quality and reducing costs in the product or process at the design stage.

13By Minimizing SN ratio one can maximize robustness of a design.

1 point

- True
- False
- None of these

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

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14Suppose a genetic algorithm uses chromosomes of the form x = abcdef with a fixed length of 1 point six genes. Each gene can be any digit between 0 and 9. Let the fitness of individual x be calculated as: f(x) = 4a + 3f - (b + c) - 2d + 5eLet the initial population consist of four individuals with the following chromosomes: $x_1 = 654532$ $x_2 = 239285$ $x_3 = 871201$ $x_4 = 418594$ Which gene has the minimum fitness using Genetic Algorithm? ○ x_1 > D ○ x_2 ○ x_3 🔍 x 4 No, the answer is incorrect. Score: 0 **Accepted Answers:** x_3 15Which of the following is a Noise factor of Taguchi's robust design? 1 point Operating Temperature Position of the gas pedal Dimensions of parts Deposition time in silicon wafer fabrication No, the answer is incorrect. Score: 0 **Accepted Answers: Operating Temperature Previous Page** End

