

## Unit 3 - Week 2

### Course outline

How does an NPTEL online course work?

#### Week 1

#### Week 2

Product Life-Cycle

Value Engineering Concepts

Design for X (DFX)

Ergonomics in Product Design

Rapid Prototyping: Concept, Advantages

Quiz : Assignment 2

Solution For Assignment 2

#### Week 3

#### Week 4

#### Week 5

#### Week 6

#### Week 7

#### Week 8

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#### Week 10

#### Week 11

#### Week 12

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## Assignment 2

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

**Due on 2020-02-12, 23:59 IST.**

1) DFMA stands for Design for Manufacturing and Assembly.

1 point

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
True

2) The sales during the growth phase of the product life cycle\_\_\_\_\_.

1 point

- Rapidly increase  
 Slowly increase  
 Slowly decrease  
 Rapidly decrease

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Rapidly increase

3) During the life cycle of a product development process, the design team has the greatest impact on the cost savings.

1 point

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
True

4) During analysis of the proposed design using Design for Manufacturing (DFM) method, the major focus is on\_\_\_\_\_

1 point

- Product quality control  
 Product aesthetics  
 Product manufacturing cost  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Product manufacturing cost

5) As per the Design for Manufacturing (DFM) guidelines for sheet metal operations, the spacing between two consecutive holes must be at least\_\_\_\_\_times the thickness of the sheet.

1 point

- 2  
 2.5  
 3  
 4

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
2

6) As per the Design for Assembly (DFA) guidelines, we must always try to\_\_\_\_\_reorientation of parts during assembly.

1 point

- Maximize  
 Minimize  
 Liberally allow  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Minimize

7) The pre-processing software slices the STL model into a number of layers from \_\_\_\_to \_\_\_\_

1 point

- 0.01 mm to 0.7 mm  
 0.01 nm to 0.7 nm  
 0.01 cm to 0.7 cm  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
0.01 mm to 0.7 mm

8) Choose the ODD one out of the following in context of Rapid Prototyping (RP) technique.

1 point

- SLS  
 DFA  
 FDM  
 LOM

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
DFA

9) Choose the correct statement (s) in context of Ergonomics;

1 point

- 1 Improve the quality of work and life  
2 Helps to prevent injuries  
3 Decrease productivity and efficiency  
4 Improve moral and job satisfaction

- 1, 2 and 3  
 1, 2, 3 and 4  
 1, 2 and 4  
 1, 3 and 4

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
1, 2 and 4

10) What are the reasons for poor value;

1 point

- 1 Outdated or inappropriate design standards  
2 Design based on habitual thinking or mistaken beliefs  
3 Incorrect assumptions based on poor information

- 1, 2 and 3  
 1 and 2  
 1 and 3  
 2 and 3

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
1, 2 and 3