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NPTEL

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Courses » Manufacturing Guidelines for Product Design

Announcements

**Course**

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## Unit 4 - Week 3



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## Assignment 3

The due date for submitting this assignment has passed.

As per our records you have not submitted this **Due on 2019-03-20, 23:59 IST.**  
assignment.

1) \_\_\_\_\_ has recommended a three-stage process for building performance and quality **1 point**  
into the products.

- Lochner
- Ifeanyi E.
- Taguchi
- Professor Henry Stoll

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Taguchi*

2) According to Professor Henry Stoll, the guideline(s) to be followed during product design **1 point**  
process is/are:

- Design of a modular product
- Use standard Components
- Integrate parts, aim to multifunctional components
- All of above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of above*

3) Process of manual assembly is divided into two separate areas; that are: **1 point**

- Handling, Insertion and fastening
- Fastening, Handling and insertion
- Insertion, Fastening and handling
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Handling, Insertion and fastening*

4) Cognitive ergonomics deals with the mental processes and capacity of human when at **1 point**  
work.

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*True*

5) \_\_\_\_\_ is a tool used to assist the design teams in the design of products that will **1 point**

undergo transition to production at a minimum cost, focusing on the number of parts, handling and ease of assembly.

- Design for Production
- Design for Manufacturing
- Design for Assembly
- Design for Manual Assembly

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Design for Assembly*

6) Which of these images should be used according to design guidelines for part handling? **1 point**

- A and C
- B and D
- A and D
- B and C

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*B and D*

7) Which of the following images follow the design guideline to eliminate fasteners and to place them away from obstructions? **1 point**

- A and C
- A and D
- B and D
- B and C

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*B and D*

8) Design for manufacturing mainly focus on: **1 point**

- Maximizing number of assembly operations
- Making individual parts to be more complex in design
- Using common datum features and primary axes
- All of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Using common datum features and primary axes*

9) Design for manual assembly (DFMA) guidelines recommended the following: **1 point**

- Avoid using separate fasteners
- Minimize handling of parts/components

- Maximum compatibility
- All of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of these*

10) In the term DFX, substitute for X includes:

**1 point**

- Manufacturing
- Assembly
- Safety
- All of these



**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of these*

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