Socrative

Quiz 7: Engineering Design

Score:

- 1. The first step in a new engineering design is to:
- A) identify competitors' products
- B) carry out functional modelling
 - write detailed specifications of the final product
 -) understand the problem.

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2. The engineering design process is iterative. This means:

- A a design is evaluated and steps are repeated to improve the design. Eventually a satisfactory design is obtained.
- \widehat{B} steps are carried out in a well-defined sequence
 - not all designs will lead to products being made
 - eventually all designs are out of date and products become obsolete.

3. In which of the following would ergonomics be an important design consideration

- A microprocessor
 - electric toothbrush
 - car engine management system
 - motorway bridge over a river.

4. Which of the following job titles is given to someone whose main role is to work on the appearance of a product?

- A) industrial designer
- B) aesthetics engineer
 - product engineer
 -) graphics designer.

5. At what stage in an engineering design are aesthetics normally first considered?

- A) at the idenfication of the problem
- B) when solutions to a problem are being generated
 - after a prototype has been made and tested
 - after the design has been finalised.

6. Reverse engineering is:

A refining a product by analysing its weaknesses and improving its performance

) starting out with the final specifications of a product and working backwards until the initial design is obtained

applying technology that was previously thought obsolete to make new products

analysing how a product was made with the intention of producing duplicates or improved versions.

From an engineering design perspective, DFA stands for:

- A Design for Appearance
 - Design for Assembly
 - Design for All

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7.

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Designated Final Assembly.

8. For which of the following products would DFMaint NOT be a priority?

- microprocessor in a computer
- B washing machine
 -) gas turbine aircraft engine
- \bigcirc offshore wind turbine.