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## Design in Engineering Test – Answer Key

- 1) **Project managers/team leaders recruit team members for projects and oversee the project to ensure key points are met.**  
**True**  
False
- 2) **Completion of one design may open the doors for modifications and/or subsequent designs.**  
**True**  
False
- 3) **The Develop and Test Models stage involves the creation of goals that act as focal points throughout the design process.**  
True  
**False**
- 4) **An example of a source for information is trade journals.**  
**True**  
False
- 5) **Ideas that seem to be silly and off-the-wall should be considered in the Brainstorming and Generating Creative Ideas Stage.**  
**True**  
False
- 6) **Testing of models should be avoided at early stages of a design because they are a waste of time, effort, and money.**  
True  
**False**
- 7) **While analyzing potential solutions, the team may have to start over if the remaining ideas do not meet the working criteria and goals.**  
**True**  
False
- 8) **The process of designing a system, component, or process to meet a desired need is the definition of:**
  - a) Working Criteria
  - b) Product Innovation
  - c) Brainstorming
  - d) Engineering Design**
- 9) **Checkpoints for progress are called the:**
  - a) Working Criteria
  - b) Engineering Design
  - c) Post-Implementation Review
  - d) Process Goals**

10) Which of the following may be classified as a model?

- a) Computer
- b) All of these are correct
- c) Mathematical
- d) Diagrams
- e) Descriptive

11) Select the following resource areas where a team may find information for researching and gathering data:

- a) Government Publications
- b) Trade journals/publications
- c) All of these are correct
- d) Disassembling the competition's product
- e) Patent searches and listings

12) Of the following questions, which IS NOT an example of a Working Criteria?

- a) All of these are correct
- b) When will production occur?
- c) Will it be difficult to produce?
- d) Is it what customers want?
- e) How much will it cost?

13) Identifying the Problem/Product Innovation must have the following requirement completed prior to continuing on:

- a) Models and prototypes built
- b) Product Performance Review
- c) Creative solutions developed
- d) Problem established

14) Complete the following statement concerning Brainstorming:

"Dumb" ideas may \_\_\_\_\_ to the final solution.

- a) lead
- b) start
- c) divert
- d) follow

15) Project managers are responsible for oversight of the project and recruitment of team members of various backgrounds and \_\_\_\_\_ .

- a) experience
- b) expertise
- c) ages
- d) interests