**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

1. Completion of one design may open the doors for modifications and/or subsequent designs.

True

False

1. The Develop and Test Models stage involves the creation of goals that act as focal points throughout the design process.

True

False

1. An example of a source for information is trade journals.

True

False

1. Ideas that seem to be silly and off-the-wall should be considered in the Brainstorming and Generating Creative Ideas Stage.

True

False

1. Testing of models should be avoided at early stages of a design because they are a waste of time, effort, and money.

True

False

1. 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

1. The process of designing a system, component, or process to meet a desired need is the definition of:
2. Working Criteria
3. Product Innovation
4. Brainstorming
5. Engineering Design
6. Checkpoints for progress are called the:
7. Working Criteria
8. Engineering Design
9. Post-Implementation Review
10. Process Goals
11. Which of the following may be classified as a model?
12. Computer
13. All of these are correct
14. Mathematical
15. Diagrams
16. Descriptive
17. Select the following resource areas where a team may find information for researching and gathering data:
18. Government Publications
19. Trade journals/publications
20. All of these are correct
21. Disassembling the competition’s product
22. Patent searches and listings
23. Of the following questions, which IS NOT an example of a Working Criteria?
24. All of these are correct
25. When will production occur?
26. Will it be difficult to produce?
27. Is it what customers want?
28. How much will it cost?
29. Identifying the Problem/Product Innovation must have the following requirement completed prior to continuing on:
30. Models and prototypes built
31. Product Performance Review
32. Creative solutions developed
33. Problem established
34. Complete the following statement concerning Brainstorming:

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

1. lead
2. start
3. divert
4. follow
5. Project managers are responsible for oversight of the project and recruitment of team members of various backgrounds and \_\_\_\_\_\_\_\_\_ .
6. experience
7. expertise
8. ages
9. interests