



Select the Best Solution

QUIZ

Question 1

A SWOT analysis will allow members of a design team to explore opportunities for members of the design team to use their strongest skills in solving a design problem.

- a. True
- b. False

Question 2

A design solution whose performance has been estimated with hand calculations or simulations must:

- a. Always meet all design specifications (both constraints and features) or be automatically rejected.
- b. Be evaluated subjectively against the design specifications identified by the design team.
- c. Be rejected if it is high risk, even if in theory, it can meet all the design specifications.
- d. Be assessed objectively in a decision matrix compared to other solutions.

Question 3

Reverse Line Thinking occurs when the design team begins with the finished product in mind and works backward to an initial prototype of that product.

- a. True
- b. False

Question 4

Which of the following are potential biases of design engineers?

- a. Tendency to play it safe and choose an incremental solution.
- b. A habit of talking too much during design meetings.
- c. Alternating between the most challenging and the easiest solution.

Question 5

It's always easier to make an unbiased choice in the design process when more decision factors are added to the decision making process.

- a. True
- b. False