



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. What is the relationship between the moment of inertia and the deflection of a beam?

- A. Directly proportional
- B. Inversely proportional
- C. No relationship
- D. Exponential relationship

Solution: The deflection of a beam is inversely proportional to the moment of inertia (I); as I increases, deflection decreases.

Q2. What is the formula for calculating the reaction forces at the supports of a simply supported beam with a uniform load?

- A. $wL/2$
- B. $wL/4$
- C. $wL/3$
- D. wL

Solution: The reaction forces at the supports of a simply supported beam with a uniform load (w) are each equal to $wL/2$.



