



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. What is the formula for the shear force at a section of a simply supported beam with a point load at one end?

- A. W
- B. $W/2$
- C. 0
- D. $W - wx$

Solution: The shear force (V) at a section x from the left end of a simply supported beam with a point load (W) at one end is given by $V = W - wx$, where w is the distributed load per unit length.

Q2. For a simply supported beam with a uniformly distributed load, what is the location of the maximum bending moment?

- A. At the supports
- B. At the center
- C. At one-third points
- D. At quarter points

Solution: The maximum bending moment for a simply supported beam with a uniformly distributed load occurs at the center of the beam.



