



## **SoulShift - Educational Q&A Platform**

### **General Questions**

Practice Questions



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**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.*



