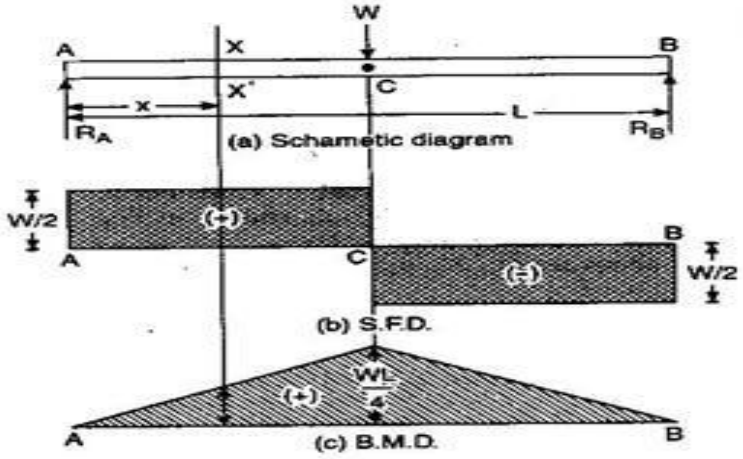
FAQs

1.What is the maximum bending moment in a simply supported beam subjected to point load at the centre?

The bending moment will be maximum at the centre and its magnitude is given by **WL/4** where W is the point load value and L is the span of the beam.

2.Draw the shear force and bending moment diagram for simply supported beam subjected to point load at the centre?



3.What is the shape of bending moment diagram of a simply subjected to uniformly distributed load?

The bending moment equation is $(wLx/2) – (wx^2/2)$ is a second order equation. Hence the bending moment curve will be parabolic in nature.

4.How to find the point of maximum bending moment in a beam?

The bending moment will be maximum at the point where the shear force is zero or the point at which the shear force changes its sign.

5.Draw the shear force and bending diagram for simply supported beam subjected to uniformly distributed load?