

FIGURE 8.100 (a)

PROBLEM STATEMENT

1. The beam is subjected to a uniformly distributed load of 10 kN/m .

2. The beam is supported by a pin support at A and a roller support at B.

3. The beam is divided into three segments: AB, BC, and CD.

4. The length of segment AB is 4 m , BC is 4 m , and CD is 4 m .

5. The beam is subjected to a uniformly distributed load of 10 kN/m over the entire length.

6. The beam is subjected to a concentrated load of 20 kN at point C.

7. The beam is subjected to a concentrated load of 10 kN at point D.

8. The beam is subjected to a concentrated load of 10 kN at point E.

9. The beam is subjected to a concentrated load of 10 kN at point F.

10. The beam is subjected to a concentrated load of 10 kN at point G.

11. The beam is subjected to a concentrated load of 10 kN at point H.

12. The beam is subjected to a concentrated load of 10 kN at point I.

13. The beam is subjected to a concentrated load of 10 kN at point J.

14. The beam is subjected to a concentrated load of 10 kN at point K.

15. The beam is subjected to a concentrated load of 10 kN at point L.

16. The beam is subjected to a concentrated load of 10 kN at point M.

17. The beam is subjected to a concentrated load of 10 kN at point N.

18. The beam is subjected to a concentrated load of 10 kN at point O.

19. The beam is subjected to a concentrated load of 10 kN at point P.

20. The beam is subjected to a concentrated load of 10 kN at point Q.

FIGURE 8.100 (b)

PROBLEM STATEMENT

1. The beam is subjected to a uniformly distributed load of 10 kN/m .

2. The beam is supported by a pin support at A and a roller support at B.

3. The beam is divided into three segments: AB, BC, and CD.

4. The length of segment AB is 4 m , BC is 4 m , and CD is 4 m .

5. The beam is subjected to a uniformly distributed load of 10 kN/m over the entire length.

6. The beam is subjected to a concentrated load of 20 kN at point C.

7. The beam is subjected to a concentrated load of 10 kN at point D.

8. The beam is subjected to a concentrated load of 10 kN at point E.

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18. The beam is subjected to a concentrated load of 10 kN at point O.

19. The beam is subjected to a concentrated load of 10 kN at point P.

20. The beam is subjected to a concentrated load of 10 kN at point Q.