Assignment 2

1. An under-reinforced concrete beam is
(a) actual depth of neutral axis is less than the critical depth of neutral axis
(b) moment of inertia is less than that of balanced section
(c) both (a) and (b)
(d) none of these

2. The effective cover of beam depends on
(a) Diameter of main reinforcement
(b) Diameter of transverse reinforcement
(c) Grade of concrete
(d) All of these

3. According to the code of practice, the minimum clear cover should be
(a) 25 mm
(b) 35 mm
(c) 40 mm
(d) 50 mm

4. The effective cover of beam depends on
(a) Diameter of main reinforcement
(b) Diameter of transverse reinforcement
(c) Grade of concrete
(d) All of these

5. The effective cover of beam depends on
(a) Diameter of main reinforcement
(b) Diameter of transverse reinforcement
(c) Grade of concrete
(d) All of these

6. The effective cover of beam depends on
(a) Diameter of main reinforcement
(b) Diameter of transverse reinforcement
(c) Grade of concrete
(d) All of these

7. The effective cover of beam depends on
(a) Diameter of main reinforcement
(b) Diameter of transverse reinforcement
(c) Grade of concrete
(d) All of these

8. In case of a beam under-reinforced beam section, the neutral axis lies
(a) Within the section of balanced section
(b) Below the neutral axis of balanced section
(c) On neutral axis of balanced section
(d) Above the neutral axis of balanced section

9. The dimensions of a rectangular section 450mm x 1200mm. The clear cover of 40
mm. The ultimate load is calculated to be 360 kN. The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

10. The dimensions of a rectangular section 650mm x 1200mm. The clear cover of 40
mm. The ultimate load is calculated to be 360 kN. The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

11. The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

12. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

13. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

14. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

15. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

16. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

17. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

18. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

19. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm

20. A beam is subjected to a moment of 10 kN-m at a section 1.0 m from the support. The
allowable stress in concrete is 13 N/mm². The depth of beam is
(a) 450 mm
(b) 600 mm
(c) 750 mm
(d) 900 mm