

QUIZ NO: 529

TOPIC: REINFORCED CEMENT CONCRETE

DATE: 11/12/2021

1. The modular ratio m of a concrete whose permissible compressive stress is C may be obtained from the equation:

[A] $m = 700/3c$

[B] $m = 1400/3c$

[C] $m = 280/3C$

[D] $m = 3500/3C$

Answer: C

2. In simply supported slab the minimum spacing of distribution reinforcement, should be four times effective thickness of the slab or:

[A] 20 cm

[B] 30 cm

[C] 40 cm

[D] 60 cm

Answer: D

3. Distribution reinforcement in a simply supported slab is provided to distribute:

- [A] Load
- [B] Temperature stress
- [C] Shrinkage stress
- [D] All the above

Answer: D

4. The pitch of the main bars in a simply supported slab should not exceed its effective depth by:

- [A] Three times
- [B] Four times
- [C] Five times
- [D] Six times

Answer: D

5. If the size of a column is reduced above the floor, the main bars of the columns are

- [A] Continued up
- [B] Bent inward at the floor level
- [C] Stopped just below the floor level and separate lap bars provided
- [D] All the above

Answer: D

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6. A column is regarded as long column if the ratio of its effective length and lateral dimension exceeds:

- [A] 10
- [B] 15
- [C] 20
- [D] 25

Answer: B

7. The spacing of transverse reinforcement of column is decided by the following consideration:

- [A] The least lateral dimension of the column
- [B] Sixteen times the diameter of the smallest longitudinal reinforcing rods in the column
- [C] forty -eight times the diameter of transverse reinforcement
- [D] All the above

Answer: D

8. The diameter of longitudinal bars of a column should never be less than:

- [A] 6 mm
- [B] 8 mm
- [C] 10 mm
- [D] 12 mm

Answer: D

9. The diameter of transverse reinforcement of columns should be equal to one -fourth of the diameter of the main steel rods but not less than:

- [A] 4 mm
- [B] 5 mm
- [C] 6 mm
- [D] 7 mm

Answer: D

10. Columns may be made of plain concrete if their unsupported lengths do not exceed their least lateral dimension:

- [A] Two times
- [B] Three times
- [C] Four times
- [D] Five times

Answer: C

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