

QUIZ NO: 611

TOPIC: REINFORCED CEMENT CONCRETE

DATE: 30/06/2022

1. According to I.S. : 456, slabs which span in two directions with corners held down, are assumed to be divided in each direction into middle strips and edge strips such that the width of the middle strip, is

- [A] Half of the width of the slab
- [B] Two-third of the width of the slab
- [C] Three-fourth of the width of the slab
- [D] Four-fifth of the width of the slab

Answer: C

2. The minimum clear cover for R.C.C. columns shall be

- [A] Greater of 40 mm or diameter
- [B] Smaller of 40 mm or diameter
- [C] Greater of 25 mm or diameter
- [D] Smaller of 25 mm or diameter

Answer: C

3. A square column section of 350 mm × 350 mm is reinforced with four bars of 25 mm diameter and four bars of 16 mm diameter. The transverse reinforcement will be:

[A] 5 mm dia @ 240 mm c/c
[B] 8 mm dia @ 300 mm c/c
[C] 6 mm dia @ 350 mm c/c
[D] 8 mm dia @ 250 mm c/c

Answer: D

4. A beam-column having overall depth and width is 550 mm and 250 mm. If torsional moment for this beam is 30 kN.m then twisting moment will be

[A] 56.5 kN.m
[B] 60.5 kN.m
[C] 52 kN.m
[D] 36.5 kN.m

Answer: A

5. A rectangular beam section of 300 mm width and 500 mm effective depth has tensile reinforcement of 1346 mm². The beam M is constructed using M20 grade concrete and Fe 415 steel. Calculate the neutral axis

[A] 225 mm
[B] 235 mm
[C] 135 mm
[D] 240 mm

Answer: A

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6. 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: C

7. The neutral axis of a T-beam exists

- [A] Within the flange
- [B] At the bottom edge of the slab
- [C] Below the slab
- [D] All the above

Answer: D

8. The maximum shear stress (q_{max}) in a rectangular beam is

- [A] 1.25 times the average
- [B] 1.50 times the average
- [C] 1.75 times the average
- [D] 2.0 times the average

Answer: B

9. According to the steel beam theory of doubly reinforced beams

- [A] Tension is resisted by tension steel
- [B] Compression is resisted by compression steel
- [C] Stress in tension steel equals the stress in compression steel & no stress is developed in compression concrete as well as in tension concrete
- [D] All the above

Answer: D

10. In a singly reinforced beam, if the permissible stress in concrete reaches earlier than that in steel, the beam section is called

- [A] Under reinforced section
- [B] Over reinforced section
- [C] Economic section
- [D] Critical section

Answer: B

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