

QUIZ NO: 422

TOPIC : REINFORCED CEMENT CONCRETE

DATE: 30/03/2021

1. The characteristic strength of concrete defined as that compressive strength below which is not more than?

- [1] 2% of results fall
- [2] 10% of results fall
- [3] 5 % of results fall
- [4] None of these

Answer : C

2. According to IS: 456-2000, the max depth of stress block for balanced section of beam of eff. depth 'd' using steel with $f_y = 250$ is given by?

- [1] 0.43d
- [2] 0.53d
- [3] 0.68d
- [4] 0.73d

Answer : B

3. The horizontal distance between parallel main reinforcements in RC slab shall not be more than?

- [1] 4 times effective depth of slab
- [2] 5 times effective depth of slab
- [3] 3 times effective depth of slab
- [4] 2 times effective depth of slab

Answer : C

4. Ratio of the diameter of reinforcing bars and the slab thickness is?

- [1] $1/4$
- [2] $1/5$
- [3] $1/6$
- [4] $1/8$

Answer : D

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

- [1] Under reinforced section
- [2] Over reinforced section
- [3] Balanced section
- [4] Economical section

Answer : B

6. In limit state method of design, for bars in compression the values of bond stress shall be?

- [1] Decreased by 25%
- [2] Increased by 20%
- [3] Decreased by 20%
- [4] Increased by 25%

Answer : D

7. In symmetrically reinforced sections, shrinkage stresses in concrete and steel are respectively?

- [1] Compressive and tensile
- [2] Tensile and compressive
- [3] Both compressive
- [4] Both tensile

Answer : B

8. IS: 456 – 2000 recommends providing certain minimum steel in a RCC beam?

- [1] To ensure compression failure
- [2] To avoid rupture of steel in case a flexural failure
- [3] To hold the stirrup steel in position
- [4] To provide enough ductility to the beam

Answer : D

9. A reinforced concrete slab is 75mm thick. The maximum size of reinforcement bar that can be used is?

- [1] 12 mm diameter
- [2] 10mm diameter
- [3] 8 mm diameter
- [4] 6 mm diameter

Answer : C

10. Drops are provided in flat slab to resist?

- [1] Bending moment
- [2] Thrust
- *[3] Shear
- [4] Torsion

Answer : C

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