

**QUIZ NO : 369**

**TOPIC : REINFORCED CEMENT CONCRETE**

**DATE : 26/11/2020**

1. The modulus of elasticity of concrete (in  $\text{N/mm}^2$ ) can be assumed as follows where  $f_{ck}$  is the characteristic cube compressive strength of concrete (in  $\text{N/mm}^2$ ) ?

- [1]  $4000 \sqrt{f_{ck}}$
- [2]  $5000 \sqrt{f_{ck}}$
- [3]  $2000 \sqrt{f_{ck}}$
- [4]  $3000 \sqrt{f_{ck}}$

**Answer : B**

2. For a reinforced concrete section, the shape of shear stress diagram is?

- [1] Wholly parabolic
- [2] Wholly rectangular
- [3] Parabolic above neutral axis and rectangular below neutral axis
- [4] Rectangular above neutral axis and parabolic below neutral axis

**Answer : C**

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. Diagonal tension in beam?

- [1] Is maximum at neutral axis
- [2] Decreases below the neutral axis and increases above neutral axis
- [3] Increases below the neutral axis and decreases above the neutral axis
- [4] Remains same

**Answer : A**

5. The modulus of rupture of concrete gives?

- [1] The direct tensile strength of the concrete
- [2] The direct compressive strength of the concrete
- [3] The tensile strength of the concrete under bending
- [4] The characteristic strength of the concrete

**Answer : C**

6. A compression member is termed as column or strut if the ratio of its effective length to the least lateral dimension on is more than?

- [1] 3
- [2] 5
- [3] 1
- [4] 2

**Answer : A**

7. 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**

8. Deflection due to creep can be controlled by providing?

- [1] Additional compression steel
- [2] Additional tension steel
- [3] Both compression and tension steel
- [4] None of these

**Answer : A**

9. 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**

10. As per IS: 456 – 2000, in the absence of test data the approximate value of the total shrinkage strain for design may be taken as?

- [1] 0.004
- [2] 0.001
- [3] 0.002
- [4] 0.0003

**Answer : D**

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