

**QUIZ NO: 593**

**TOPIC: REINFORCED CEMENT CONCRETE**

**DATE: 14/05/2022**

**1. The average value of yield stress for mild steel is:**

[A] 250 N/mm<sup>2</sup>

[B] 140 N/mm<sup>2</sup>

[C] 340 N/mm<sup>2</sup>

[D] 400 N/mm<sup>2</sup>

**Answer: A**

**2. What is the intensity of live load to be taken for design for roof with an access to it?**

[A] 4.5 kN/m<sup>2</sup>

[B] 3 kN/m<sup>2</sup>

[C] 1.5 kN/m<sup>2</sup>

[D] 0.75 kN/m<sup>2</sup>

**Answer: C**

**3. For the limit state of collapse the partial safety factor for steel is:**

- [A] 1.15
- [B] 1.50
- [C] 2.00
- [D] 2.15

**Answer: A**

**4. The beam section has to be redesigned if the shear stress exceeds the allowable shear stress by:**

- [A] 1.5 times
- [B] 2 times
- [C] 4 times
- [D] 10 times

**Answer: C**

**5. In a singly reinforced beam, the effective depth is the distance between its compression edge and**

- [A] Tensile edge
- [B] Centre of tensile reinforcement
- [C] Longitudinal centre axis
- [D] Whichever is less

**Answer: B**

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**6. In a reinforced concrete beam not subjected to torsion, side face reinforcement is required if its overall depth is more than:**

- [A] 750 mm
- [B] 450 mm
- [C] 300 mm
- [D] 500 mm

**Answer: A**

**7. Compression failure of simply supported beam occurs in:**

- [A] Balanced section
- [B] Over reinforced section
- [C] Under reinforced section
- [D] None of above

**Answer: B**

**8. The permissible shear stress in concrete for beams without shear reinforcement depends upon:**

- [A] Grade of concrete
- [B] Percentage of tension reinforcement
- [C] Both A and B
- [D] None

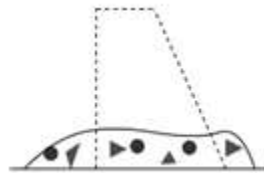
**Answer: C**

9. Minimum distance between horizontal parallel reinforcements of the same size should not be less than:

- [A] 3.5 times diameter
- [B] 3 times diameter
- [C] 2 times diameter
- [D] One diameter

**Answer: D**

10. The figure below represents a



- [A] Low slump
- [B] Normal slump
- [C] Shear slump
- [D] Collapse slump

**Answer: D**

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