

## QUIZ NO: 731

### TOPIC: REINFORCED CEMENT CONCRETE

DATE: 24/06/2023

1. The maximum area of tension reinforcement in beams shall not exceed

\_\_\_\_\_.

[A] 2%

[B] 4%

[C] 0.15%

[D] 1.5%

**Answer: B**

2. The minimum cube strength of concrete used for a post tensioned prestressed member, is \_\_\_\_\_

[A] 40 kg/cm<sup>2</sup>

[B] 300 kg/cm<sup>2</sup>

[C] 350 kg/cm<sup>2</sup>

[D] 400 kg/cm<sup>2</sup>

**Answer: B**

**3. Spacing of stirrups in a rectangular beam is**

- [A] Kept constant throughout the length
- [B] Decreased towards the centre of the beam
- [C] Increased at the ends
- [D] Increased at the centre of the beam

**Answer: D**

**4. In a singly reinforced beam, the effective depth is measured from its compression edge to**

- [A] Tensile edge
- [B] Tensile reinforcement
- [C] Natural axis of the beam
- [D] Longitudinal central axis

**Answer: B**

**5. The minimum percentage of reinforcement of the gross-sectional area for mild steel and HYSD bars in slabs , is**

- [A] 0.10 % and 0.12 %
- [B] 0.12 % and 0.15 %
- [C] 0.12 % and 0.12 %
- [D] 0.15 % and 0.12 %

**Answer: D**

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**6. Maximum diameter of bar for RC slab having thickness  $D$  is restricted to**

- [A]  $D/4$
- [B]  $D/6$
- [C]  $D/8$
- [D]  $D/10$

**Answer: C**

**7. Length of torsion reinforcement in two way slab is provided as**

- [A] Shorter span / 4
- [B] Longer span / 4
- [C] Longer span / 5
- [D] Shorter span / 5

**Answer: D**

**8. Strength of concrete increases with**

- [A] Increase in  $w/c$
- [B] Decrease in  $w/c$
- [C] Decrease in aggregate size
- [D] Decrease in curing time

**Answer: B**

**9. Shape of  $\sigma$ -E curve for concrete is prescribed by IS456:2000 is.**

- [A] Rectangular
- [B] Parabolic
- [C] Rectangular -Parabolic
- [D] None

**Answer: C**

**10. The design strength of steel in LSM is**

- [A]  $f_y/1.5$
- [B]  $f_y/0.87$
- [C]  $0.87f_y$
- [D]  $0.85f_y$

**Answer: C**

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