

QUIZ NO: 587

TOPIC: REINFORCED CEMENT CONCRETE

DATE: 30/04/2022

1. In reinforced cement concrete structures, the steel reinforcement consists of

- [A] Deformed bars
- [B] Cold twisted bars
- [C] Mild steel and medium tensile steel bars
- [D] All of these

Answer: D

2. A twisted bar has about.....more yield stress than ordinary mild steel bar

- [A] 10%
- [B] 20%
- [C] 35%
- [D] 50%

Answer: D

3. The compressive strength of concrete is about 10 to 15% of its tensile strength.

[A] True

[B] False

Answer: B

4. In singly reinforced beams, steel reinforcement is provided in

[A] Tensile zone

[B] Compressive zone

[C] Both tensile and compressive zones

[D] Neutral zone

Answer: A

5. In a simply supported reinforced concrete beam, the reinforcement is placed

[A] Below the neutral axis

[B] Above the neutral axis

[C] At the neutral axis

[D] Any one of these

Answer: A

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6. The joint action of steel and concrete, in a reinforced concrete section, depends upon the

- [A] Bond between concrete and steel bars
- [B] Absence of corrosion of steel bars embedded in the concrete
- [C] Practically equal thermal expansion of both concrete and steel
- [D] All of the above

Answer: D

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

- [A] Tensile edge
- [B] Centre of tensile reinforcement
- [C] Neutral axis of the beam
- [D] None of these

Answer: B

8. Analysis of reinforced concrete can be done by

- [A] Straight line theory
- [B] Elastic theory
- [C] Ultimate load theory
- [D] All of these

Answer: D

9. The application of elastic theory to the beams is based on the assumption that

[A] At any cross-section, plane sections before bending remain plane after bending

[B] All tensile stresses are taken up by reinforcement alone and none by the concrete

[C] Steel reinforcement is free from initial stresses when it is embedded in concrete

[D] All of the above

Answer: D

10. In a slab the transverse reinforcement is provided at an angle of to the span of the slab

[A] 45°

[B] 60°

[C] 75°

[D] 90°

Answer: D

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