

QUIZ NO: 786

TOPIC: REINFORCED CEMENT CONCRETE

DATE: 21/12/2023

1. The length of reinforcement embedded in a concrete member to achieve the suitable bond strength between the steel and concrete is termed as

- [A] Hook length
- [B] Anchorage length
- [C] Development length
- [D] Cranked length

Answer: C

2. If the development length in case of mild steel in tension is L , then the development length in case of mild steel in compression will be

- [A] $2L$
- [B] $0.8L$
- [C] $1.5L$
- [D] $0.5L$

Answer: B

3. For 45° cranking, the cranked length in reinforcing bars is equal to:

- [A] 0.414 D
- [B] 0.435 D
- [C] 0.445 D
- [D] 0.525 D

Answer: A

4. The anchorage length for 90° bend is equal to:

- [A] Diameter of bar
- [B] 2 times diameter of bar
- [C] 4 times diameter of bar
- [D] 8 times diameter of bar

Answer: D

5. If the development length in case of mild steel in tension is L, then the development length in case of HYSD steel bar in compression will be

- [A] 2L
- [B] 0.8L
- [C] 1.5L
- [D] 0.5L

Answer: D

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6. TMT steel bar denotes

- [A] Thermo Modified Treated
- [B] Thermo Mechanically Treated
- [C] Thermal Mechanic Twisted
- [D] Thermo Mechanically Twisted

Answer: B

7. Compressive strength of concrete is tested using concrete cube of size

- [A] 5.07 cm
- [B] 7.06 cm
- [C] 15.0 cm
- [D] 17.5 cm

Answer: C

8. Anchorage length for a reinforcing bar is taken equal to 12 times diameter of bar. Then angle of bend will be

- [A] 30°
- [B] 45°
- [C] 90°
- [D] 135°

Answer: D

9. In M20 concrete, cement: fine aggregate: coarse aggregate proportion is

- [A] 1:4:8
- [B] 1:1.5:3
- [C] 1:2:4
- [D] 1:3:6

Answer: B

10. The quantity of water required per 1 bag of cement for M20 concrete

is

- [A] 40 lit
- [B] 34 lit
- [C] 30 lit
- [D] 28 lit

Answer: C

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