

RCC Structures Design Objective Type Questions and Answers Pdf

1. Characteristic load means
 - a. Maximum load
 - b. Mean load
 - c. Mean load + 5% of standard deviation
 - d. Mean load + 10% of standard deviation

Ans: C

2. Characteristic strength is
 - a. Minimum assured strength
 - b. Minimum assured strength + 1.64 times standard deviation
 - c. Mean strength
 - d. Mean strength + 1.64 times standard deviation

Ans: B

3. Partial safety factors for dead load and imposed load combination for limit state of serviceability are
 - a. 1.0 and 1.0
 - b. 1.5 and 1.5
 - c. 1.2 and 1.2
 - d. 1.0 and 0.8

Ans: A

4. Partial safety factor for steel for limit state of collapse is
 - a. 1.0
 - b. 1.15
 - c. 1.2
 - d. 1.5

Ans: B

5. Partial safety factor for steel for limit state of deflection is
 - a. 1.0
 - b. 1.15
 - c. 1.2
 - d. 1.5

Ans: A

6. Limiting value of depth of neutral axis in R.C. beam of depth d with Fe 415 steel is
 - a. $0.36 d$
 - b. $0.42 d$
 - c. $0.48 d$
 - d. $0.53 d$

Ans: D

7. One can go for doubly reinforced section
 - a. To restrict depth of beam from architectural consideration
 - b. To improve ductility of beam

- c. To reduce long term deflections
- d. All the above

Ans: D

8. In a R.C. beam beam shear reinforcement should be always in the form of
- a. Vertical stirrups
 - b. Inclined stirrups
 - c. Bent up bars with stirrups
 - d. Any one of the above

Ans: D

9. The anchorage value of a standard U-type hook is equivalent to _____ times the diameter of the bar

- a. 4
- b. 8
- c. 12
- d. 16

Ans: D

10. Pick up the incorrect statement

A : Standard hooks are provided in plain bars.

B : Standard bends are provided in high yield bars.

C : Standard hook or bend is provided in plain bars.

- a. A and B are correct C is false
- b. A and C are correct B is false
- c. A is false B and C are correct
- d. All the three are correct

Ans: A