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## RCC Structures Design MCQ Test

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**Q1. What does RCC mean in construction?**

- A. Reinforced Concrete Cement
- **B. Reinforced Cement Concrete**
- C. Reinforced Combined Cement
- D. Reinforced Constituent Cement

**Q2. The end or side covers for steel bar may be taken as ..... In RCC work.**

- A. 7cm to 9cm
- B. 6cm to 9cm
- **C. 4cm to 5cm**
- D. 3cm to 7cm

**Q3. The cheaper way of protecting rebars is by coating them with calcium sulfate.**

- **A. True**
- B. False

**Q4. The diameter of the longitudinal bars of a column should never be less than 12 mm.**

- **A. True**
- B. False

**Q5. How many R.C.C. columns shall be for minimum clear cover?**

- **A. Greater of 25 mm or diameter**
- B. Smaller of 40 mm or diameter
- C. Greater of 25 mm or diameter
- D. Smaller of 25 mm or diameter

**Q6. A T-beam behaves as a rectangular beam of a width equal to its flange if its neutral axis .....**

- A. 1/25th of span
- **B. 1/40th of span.**
- C. 1/20th of span
- D. None of the above

**Q7. What is the advantage of a concrete pile over a timber pile?**

- A. Higher bearing capacity
- B. No restriction on length
- C. No decay due to termites
- **D. All of the above**

**Q8. The effective width of a column strip of a flat slab, is .....**

- A. Radius of the column
- **B. Half the width of the panel**
- C. Diameter of the column
- D. None of the above

**Q9. The Design of R.C.C. cantilever beams, is based on the resultant force at .....**

- A. Free end
- B. Mid span
- **C. Fixed end**
- D. None of the above

**Q10. Distribution reinforcement in a simply supported slab, is provided to distribute**

- A. Load
- B. Shrinkage stress
- C. Temperature stress
- **D. All of the above**

**Q11. The amount of reinforcement for main bars in a slab is based upon**

- A. Minimum shear force
- B. Maximum shear force
- C. Minimum bending moment
- **D. Maximum bending moment**

**Q12. The advantage of reinforced concrete is due to .....**

- A. Monolithic character
- B. Fire-resisting and durability
- C. Economy because of less maintenance cost
- **D. All of the above**

**Q13. The effective span of a simply supported slab is**

- A. Clear span plus effective depth of the slab
- B. Distance between the centres of the bearings
- **C. Clear distance between the inner faces of the walls plus twice the thickness of the wall**
- D. None of the above

**Q14. The shear reinforcement in RCC is provided to resist**

- A. Vertical shear
- B. Horizontal shear
- **C. Diagonal tension**
- D. Diagonal compression

**Q15. The steel generally used in R.C.C. work, is**

- **A. Mildsteel**
- B. Stainless
- C. High carbon steel

- D. High tension steel

**Q16. If the diameter of the main reinforcement in the slab is 16 mm, what will be the solid for the main bars?**

- A. 13 mm
- B. 16 mm
- C. 14 mm
- D. 15 mm

**Q17. What should be the width of the ribbed slab between the two strips?**

- A. 6 cm to 7.5 cm
- B. 10 cm to 12 cm
- C. 8 cm to 10 cm
- D. 12 cm to 15 cm

**Q18. What is the maximum permissible size of aggregates to be used in casting the ribs of a slab?**

- A. 5 mm
- B. 15 mm
- C. 10 mm
- D. 7.5 mm

**Q19. An R.C.C. column is treated as short column if its slenderness ratio is less than .....**

- A. 35
- B. 40
- C. 50
- D. 45

**Q20. Which of the following steel generally used in RCC work?**

- A. Stainless
- B. Mild steel
- C. High carbon steel
- D. High tension steel

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