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Design of Masonry Structures MCQ Test

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Below is the **Design of Masonry Structures MCQ** test that checks your basic knowledge of the Design of Masonry Structures. This **Design of Masonry Structures MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. apart from this, you can also download **design of masonry structures mcq pdf** completely.

Q1. The consistency of mortar should be for masonry work with solid bricks.

- A. 5 to 8 cm
- **B. 9 to 13 cm**
- C. 19 to 23 cm
- D. 14 to 18 cm

Q2. What is the horizontal shear stress permissible on the area of a mortar bed joint for masonry built-in 1: 1: 6 cement-lime-sand mix mortar or equivalent?

- A. 0.1 MPa
- B. 0.15 MPa
- C. 0.075 MPa
- **D. 0.125 MPa**

Q3. A composite cement-lime mortar is preferred over cement mortar for identical strength.

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

Q4. Water retention for brick masonry should not be less than what percentage?

- A. 60 %

- **B. 70 %**
- C. 50 %
- D. None of the above

Q5. The vertical distance between openings one above the other in a load-bearing wall shall not be less than For earthquake resistant masonry buildings.

- **A. 60 cm**
- B. 50 cm
- C. 75 cm
- D. None of the above

Q6. Minimum thickness of stiffening wall for 1 to 3 storeys shall not be less than

- A. 15 cm
- **B. 10 cm**
- C. 20 cm
- D. 30 cm

Q7. Which of the following will give a higher ratio of brickwork strength to mortar strength?

- A. 1:1:6
- **B. 1:2:9**
- C. 1:2:3
- D. 1:2:4

Q8. What is the minimum compressive strength in N/mm² for H1 type mortar used for masonry?

- A. 3
- B. 5
- C. 7
- **D. 10**

Q9. Rich cement mortars are more liable to cracking as compared to lean mortars because rich mortars have high shrinkage.

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

Q10. The vertical distance between openings one above the other in a load-bearing wall shall not be less than for earthquake-resistant masonry buildings.

- **A. 60 cm**
- B. 70 cm
- C. 75
- D. 65

Q11. What are the effective height of freestanding non-load-bearing wall and column respectively will be?

- A. 1.0H and 1.0H
- **B. 2.0H and 2.0H**
- C. 1.5H and 1.5H
- D. None of the above

Q12. A free-standing brick wall 20 cm thick is subjected to a wind pressure of 75kg/m². What is the maximum height of the wall from stability consideration?

- A. 1.28 m
- B. 1.5 m
- **C. 0.64 m**
- D. 0.96 m

Q13. A high lime content in a composite cement-lime mortar results in

- A. Slow hardening
- B. Weaker mortar
- **C. Both A & B**
- D. None of the above

Q14. A 200 mm thick wall made of modular bricks is 5 m long between cross walls and 3.8 m clear height between RCC slabs at top and bottom. What is the slenderness ratio of the wall?

- A. 10
- **B. 15**
- C. 20
- D. 25

Q15. If the horizontal cross-sectional area of a wall is 1200 cm², then the basic stress shall be multiplied by a reduction factor equal to

- A. 0.75
- B. 0.95
- **C. 0.85**
- D. None of the above

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