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Continuing Education Course #419
Fundamentals of Masonry
Part B

1. Modern day building codes and standards are applicable to new masonry construction.
 - a. T
 - b. F

2. Of all problems occurring in masonry construction, approximately 90% occur because of construction errors usually involving water intrusion.
 - a. T
 - b. F

3. Reinforced masonry means the masonry units themselves (concrete masonry units and clay brick) are manufactured with high strength cementitious materials.
 - a. T
 - b. F

4. Which of the following statements is False?
 - a. Grout is made with the same ingredients as concrete - water, aggregate, Portland cement.
 - b. Grout is different from concrete.
 - c. Grout will stick to the underside of a trowel.
 - d. Grout is similar in looks to concrete.

5. Wire joint reinforcement is commonly used:
 - a. To control vertical masonry wall cracking.
 - b. As a metal tie system for bonding together adjacent masonry wythes (thicknesses) of walls.
 - c. As a structural steel reinforcement to increase masonry's resistance to bending, shear, and direct stresses.
 - d. All of the above.

6. A lintel is a beam that spans openings in masonry walls.
 - a. T
 - b. F

7. Precast concrete lintels are often preferred over reinforced concrete masonry lintels.
 - a. T
 - b. F

8. A masonry wall is constructed using a running bond pattern. When a sufficient height of masonry wall is structurally continuous above an opening, a lintel placed above the opening may only need to carry its own weight plus the weight of the wall within a triangular shaped area above the lintel.
 - a. T
 - b. F

9. Arching action in masonry walls produces relatively large horizontal thrusts.
- a. T
 - b. F
10. Control joints are used to control vertical cracking in masonry walls.
- a. T
 - b. F
11. Control joints are commonly placed in masonry walls where there are bending stresses in the wall.
- a. T
 - b. F
12. Control joints can be constructed with the following materials in the joint:
- a. Nothing but backer rod and caulk.
 - b. Preformed gaskets.
 - c. Ceramic fiber felt.
 - d. All of the above.
13. Bond beams in concrete masonry walls are primarily used to resist flexural stresses in the transverse horizontal (lateral) direction.
- a. T
 - b. F
14. Bond beams must terminate at corners in masonry walls.
- a. T
 - b. F
15. H-shaped block and/or A-shaped lintel block are used when a bond beam has vertical steel passing through it.
- a. T
 - b. F
16. A pilaster can be:
- a. Used as a vertical column.
 - b. Used as a vertical beam.
 - c. Bonded or keyed to a masonry wall.
 - d. All of the above.
17. A Flat or Jack arch is a minor arch with a camber rather than a rise, and has a span greater than 6-feet.
- a. T
 - b. F
18. The magnitudes of the loads masonry arches carry are similar to those lintels carry.
- a. T
 - b. F
19. Which of the following statements is False?
- a. Corbelling increases the dimension of wall thickness.
 - b. Racking decreases the dimension of wall thickness.
 - c. Corbelling can be an architectural feature.
 - d. Racking increases the dimension of wall thickness.
20. A masonry wall is 18-inches thick. According to the building codes what is the maximum amount of corbelling allowed in the wall?

- a. 18-inches
- b. 12-inches
- c. 9-inches
- d. 6-inches

21. It is relatively easy to prevent ALL water and moisture from passing through a single wythe masonry wall.

- a. T
- b. F

22. Shingling is:

- a. A method of installing masonry veneer.
- b. Overlapping separate pieces of flashing in the direction of the flow of water.
- c. Tucking your rain pants inside your boots.
- d. A reverse lap.

23. When installing a window over a water resistant barrier, the bottom flange should be caulked and sealed with sealing tape.

- a. T
- b. F

24. All drip edges under stone caps have a round shape.

- a. T
- b. F

25. An improperly installed brick window sill can lead to serious damage to the wood sheathing on a building.

- a. T
- b. F

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