

**\*\*\* EXAMINATION \*\*\***

**ARCHITECTURAL CONCRETE**

1. **Architectural concrete is concrete:**
  - a) in an interior or exterior surface in a completed structure.
  - b) shown on a site plan.
  - c) designed by an architect.
  - d) designed by an architect or engineer.
  
2. **Drawings and specifications showing architectural concrete shall**
  - a) show limits
  - b) show location
  - c) show type of treatment
  - d) All of the above.
  
3. **When concrete dries and shrinks:**
  - a) rustification occurs.
  - b) cracks develop.
  - c) non-flexible concrete is used.
  - d) None of the above.
  
4. **Recommended vertical contraction joint spacing for a 4-foot wall is:**
  - a) equal to the wall height.
  - b) two times the wall height.
  - c) three times the wall height.
  - d) None of the above.
  
5. **The recommended maximum spacing for vertical construction joints is:**
  - a) 15 feet
  - b) 30 feet
  - c) 45 feet
  - d) 60 feet
  
6. **Precast architectural units should have flexibility to allow for:**
  - a) temperature
  - b) expansion
  - c) drilling bolts
  - d) None of the above.

7. **Optical sag refers to:**
- a) deflection of long span smooth concrete girders.
  - b) reflection of long span smooth concrete girders.
  - c) reinforcement of long span smooth concrete girders.
  - d) None of the above.
8. **The determination of color preference is:**
- a) noted in NCAARB standards.
  - b) individual preference.
  - c) NAHB.
  - d) None of the above.
9. **Patterns of rustication and joints can be used to:**
- a) break up large flat areas
  - b) isolate placements to eliminate any possible leakage traces
  - c) cover form joints
  - d) All of the above
10. **Wood rustication strips have:**
- a) depth of 3 inches for small grooves.
  - b) depth of 3 inches for crack control joints.
  - c) Uniform cross section and strength for good alignment.
  - d) None of the above.
11. **Chamfer strips are recommended:**
- a) for internal form corners to aid in form removal.
  - b) for external form corners to aid in form removal.
  - c) for upper form corners to aid in form removal.
  - d) for lower form corners to aid in form removal.
12. **Wood chamfers should:**
- a) have a minimum face width of one inch.
  - b) the same texture as the adjacent form.
  - c) be sealed to prevent absorption.
  - d) All of the above.
13. **Drip molds for drainage should be:**
- a) a minimum distance of 1 inch from the face of the concrete.
  - b) a minimum distance of 2 inches from the face of the concrete.
  - c) a minimum distance of 3 inches from the face of the concrete.
  - d) a minimum distance of 4 inches from the face of the concrete.
14. **The choice of pre-case or cast-in-place concrete is based on:**
- a) economics
  - b) availability of materials
  - c) availability of personnel.
  - d) All of the above.

15. **Competitive pre-cast concrete pricing will be lower because of:**
- a) longer haul distances
  - b) higher local labor rates
  - c) short railroad haul distances
  - d) None of the above.
16. **Selection of forms for architectural concrete is determined by:**
- a) number of forms
  - b) number of reuses
  - c) number of laborers
  - d) None of the above.
17. **The order of cost of forms from lowest to highest is:**
- a) plywood, high-density plywood, rough board
  - b) rough board, plywood, high-density plywood
  - c) rough board, high-density plywood
  - d) high-density plywood, rough board, plywood
18. **The order of cost of plastic liner from lowest to highest is:**
- a) elastomeric, styrofoam, and ABS
  - b) elastomeric, ABS, and styrofoam
  - c) styrofoam, ABS, and elastomeric
  - d) styrofoam, elastomeric, and ABS
19. **Plastic-coated plywood will last about:**
- a) 12 reuses.
  - b) 16 reuses.
  - c) 20 reuses.
  - d) 30 reuses.
20. **The color of architectural concrete should be placed at:**
- a) temperatures between 65 degrees and 85 degrees Fahrenheit.
  - b) temperatures between 55 degrees and 85 degrees Fahrenheit.
  - c) temperatures between 45 degrees and 85 degrees Fahrenheit.
  - d) temperatures between 35 degrees and 85 degrees Fahrenheit.

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