

***** EXAMINATION *****

HEAVY TIMBER CONSTRUCTION

1. **Heavy timber construction is commonly used for:**
 - a) churches
 - b) auditoriums
 - c) schools
 - d) All of the above

2. **Fire insurance rates are lowest for:**
 - a) conventional framed buildings
 - b) plank-and-beam framed buildings
 - c) heavy timber buildings
 - d) All of the above have equal insurance rates

3. **Heavy timber fire resistance is attained by:**
 - a) concealing spaces under floors
 - b) concealing spaces under roofs
 - c) limiting the minimum sizes on wood structural members
 - d) All of the above

4. **Structural members that are exposed to weather shall be treated**
 - a) with acetone
 - b) with preservatives
 - c) with paint
 - d) Any of the above

5. **Wood columns may be:**
 - a) fabricated
 - b) made of any type wood
 - c) glue laminated
 - d) paint laminated

6. **Wood columns supporting floor loads shall be at least:**
 - a) 4 inches
 - b) 8 inches
 - c) 10 inches
 - d) 12 inches

7. **Wood columns supporting roofs should be at least:**
- a) 6 inches in width and 8 inches in depth
 - b) 8 inches in width and 8 inches in depth
 - c) 12 inches in width and depth
 - d) None of the above
8. **Wood beams may be:**
- a) fabricated
 - b) made of any type wood
 - c) glue laminated
 - d) paint laminated
9. **Wood beams supporting floors should be at least:**
- a) 6 inches in width and 10 inches in depth
 - b) 8 inches in width and 8 inches in depth
 - c) 12 inches in width and depth
 - d) None of the above
10. **Timber trusses supporting floors should be at least:**
- a) 6 inches in width and 8 inches in depth
 - b) 8 inches in width and 8 inches in depth
 - c) 12 inches in width and depth
 - d) None of the above
11. **Columns, beams, girders, and arches shall have a:**
- a) fire resistance rating of at least 30 minutes
 - b) fire resistance rating of at least 60 minutes
 - c) fire resistance rating of at least 75 minutes
 - d) fire resistance rating of at least 90 minutes
12. **Expansion joints between walls and planks shall be at least:**
- a) 1//2 inch
 - b) 1 inch
 - c) 2 inches
 - d) 3 inches
13. **Materials for bearing portions of exterior walls shall have a:**
- a) fire resistance rating of at least 60 minutes
 - b) fire resistance rating of at least 80 minutes
 - c) fire resistance rating of at least 100 minutes
 - d) fire resistance rating of at least 120 minutes
14. **Columns should be anchored to column foundations by:**
- a) anchor bolts
 - b) screws
 - c) 16d nails
 - d) 60d nails

15. **Vent holes should be used:**
- a) below the column foundation
 - b) above the column
 - c) between the column foundation and at the bottom of the column
 - d) None of the above
16. **Anchor straps should be:**
- a) embedded in the concrete foundation
 - b) above the concrete foundation
 - c) sealed to the concrete with putty
 - d) None of the above
17. **In Figure 7, detail D-2, the bearing plates are connected to:**
- a) floor beams with anchor bolts
 - b) floor beams with anchor lugs
 - c) floor beams with anchor straps
 - d) None of the above
18. **In Figure 8, detail E-4, the roof beam is connected to the wall by:**
- a) with anchor bolts
 - b) with anchor lugs
 - c) with anchor straps
 - d) with an anchor bar
19. **In Figure 9, detail F-1, the beam is connected to the metal hanger:**
- a) by anchor bolts
 - b) by anchor bolts
 - c) by lag screws
 - d) None of the above
20. **For a loading platform door sill, the threshold plate sits on:**
- a) spaced decking and the exterior wall
 - b) spaced decking and a beam
 - c) spaced decking and a jamb
 - d) spaced decking and a ramp

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