

***** EXAMINATION *****

PLANK-AND-BEAM FRAMING FOR RESIDENTIAL BUILDINGS

1. **This course presents technical data helpful to:**
 - a) builders
 - b) architects
 - c) engineers
 - d) All of the above

2. **Compared to conventional framing using joists and rafters,**
 - a) the plank-and-beam method requires more pieces
 - b) the plank-and-beam method requires fewer pieces
 - c) the plank-and-beam method requires smaller pieces
 - d) the plank-and-beam method requires spacing closer together

3. **Plank roofs usually have a:**
 - a) 1-inch nominal thickness
 - b) 2-inch nominal thickness
 - c) 4-inch nominal thickness
 - d) 6-inch nominal thickness

4. **Plank roofs are supported by beams up to:**
 - a) 2 feet apart
 - b) 5 feet apart
 - c) 8 feet apart
 - d) 9 feet apart

5. **Supplementary framing and its covering provide:**
 - a) lateral bracing for the building
 - b) an architectural advantage
 - c) significant solar reflection
 - d) None of the above

6. **To eliminate headers over door openings,**
 - a) doors should be located between posts in the exterior walls
 - b) doors should be located outside of posts in the exterior walls
 - c) doors should be located under posts in the exterior walls
 - d) None of the above

7. **When conventional framing is located along plank-and-beam framing,**
 - a) structural problems can result
 - b) architectural problems can result
 - c) construction problems can result
 - d) no particular problems are encountered

8. **Plank-and-beam framing reduces:**
 - a) lumber costs
 - b) labor costs
 - c) engineering costs
 - d) architectural design costs

9. **Plank-and-beam framing eliminates:**
 - a) nails
 - b) larger nails
 - c) cross-bridging of joists
 - d) All of the above

10. **Plank floors are designed for:**
 - a) light loads
 - b) moderate uniform loads
 - c) heavy loads
 - d) All of the above

11. **Planking is a problem for location of electrical distribution:**
 - a) because of conductivity
 - b) because of polarity
 - c) because of lack of concealed spaces in the ceiling
 - d) All of the above

12. **Planks transmit their loads to:**
 - a) the beams
 - b) the posts
 - c) the foundation
 - d) the ground

13. **Beams transmit their loads to:**
 - a) the planks
 - b) the posts
 - c) the foundation
 - d) the ground

14. **Posts transmit their loads to:**
 - a) the planks
 - b) the ground
 - c) the beams
 - d) the foundation

15. **Posts should be at least:**
- a) 1 x 1 inch
 - b) 2 x 2 inches
 - c) 4 x 4 inches
 - d) 8 x 8 inches
16. **Planks should be nailed to each support with a minimum of:**
- a) two 16d nails
 - b) four 16D nails
 - c) two 60d nails
 - d) four 60d nails
17. **Lateral bracing is required in exterior walls to provide:**
- a) resistance against snow
 - b) resistance against rain
 - c) resistance against wind and seismic forces
 - d) resistance to heat
18. **Gable roofs must be made to:**
- a) absorb vertical thrust produced by sloping roof beams
 - b) absorb horizontal thrust produced by sloping roof beams
 - c) resist ground movements of foundations
 - d) None of the above
19. **The live load commonly specified for floors is:**
- a) 10 pounds per square foot
 - b) 20 pounds per square foot
 - c) 30 pounds per square foot
 - d) 40 pounds per square foot
20. **For a Type A beam support, doubling the span will:**
- a) will increase the induced bending moment by a factor of 4
 - b) will increase the induced bending moment by a factor of 2
 - c) will decrease the induced bending moment by a factor of 4
 - d) will decrease the induced bending moment by a factor of 2

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