

**GEOGRAPHIC INFORMATION SYSTEMS
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***** EXAMINATION *****

**STEEL DESIGN AND CONSTRUCTION USING
THE 2003 INTERNATIONAL BUILDING CODE**

1. **The factor of safety is represented by the symbol:**
 - a) alpha
 - b) omega
 - c) phi
 - d) beta

2. **The resistance factor is represented by the symbol:**
 - a) alpha
 - b) omega
 - c) phi
 - d) beta

3. **Individual structural members of cold-formed steel construction shall:**
 - a) be protection against corrosion with an approved coat of paint
 - b) be protection against corrosion with an approved coat of enamel
 - c) be protection against corrosion with an approved protection
 - d) All of the above

4. **The design of cold-formed carbon and low-alloy steel members shall be:**
 - a) in accordance with the AISI-NASPEC
 - b) in accordance with ACI318
 - c) in accordance with ASCE 3
 - d) in accordance with AISC LRFD

5. **The design of composite slabs of concrete and steel decks shall be:**
 - a) in accordance with the AISI-NASPEC
 - b) in accordance with ACI318
 - c) in accordance with ASCE 3
 - d) in accordance with AISC LRFD

6. **Boundary members and connections for Type I shear walls shall be:**
 - a) proportioned to transmit the induced forces
 - b) limited to accept the affects of seismic forces
 - c) not limited to accept the affects of seismic forces
 - d) not proportioned to transmit the induced forces

7. **For Type I shear walls, the height of the wall pier shall be defined:**
 - a) as the closed height of the pier at the side of the opening
 - b) as the clear height of the pier at the side of the opening
 - c) as the accessible height of the pier at the side of the opening
 - d) as the projected height of the pier at the side of the opening
8. **For Type 1 shear walls, the width of wall piers shall be defined as the:**
 - a) sheathed width of the pier
 - b) clear width of the pier
 - c) closed width of the pier
 - d) None of the above
9. **The width of wall piers shall not be less than:**
 - a) 12 inches
 - b) 18 inches
 - c) 24 inches
 - d) 30 inches
10. **Where allowable stress design is used, the allowable shear value shall be:**
 - a) the nominal shear value divided by the factor of safety
 - b) the nominal shear value plus the factor of safety
 - c) the nominal shear value times the factor of safety
 - d) the nominal shear value minus the factor of safety
11. **Where load and resistance factor design is used, the design shear value:**
 - a) shall be the nominal shear value times the resistance factor
 - b) shall be the nominal shear value divided by the resistance factor
 - c) shall be the nominal shear value plus the resistance factor
 - d) shall be the nominal shear value minus the resistance factor
12. **For lateral-resistant systems, panels less than:**
 - a) 12 inches wide shall not be used
 - b) 15 inches wide shall not be used
 - c) 18 inches wide shall not be used
 - d) 24 inches wide shall not be used
13. **Fasteners along the edges in shear panels shall be placed not less than:**
 - a) 1/8 inch in from panel edges
 - b) 1/4 inch in from panel edges
 - c) 3/8 inch in from panel edges
 - d) 1/2 inch in from panel edges
14. **For lateral-resistant systems, track shall be a minimum of:**
 - a) 1 1/4 inches by 2 1/2 inches
 - b) 1 1/4 inches by 3 1/2 inches
 - c) 2 1/2 inches by 2 1/2 inches
 - d) 2 1/2 inches by 3 1/2 inches

15. **Steel sheets, attached to cold-formed steel framing are permitted to:**
- a) resist horizontal forces produced by floods
 - b) resist horizontal forces produced by wind and seismic loads
 - c) resist horizontal forces produced by heat
 - d) resist horizontal forces produced by cold
16. **Steel sheets are permitted to be applied:**
- a) parallel to the framing
 - b) perpendicular to the framing
 - c) either a or b
 - d) None of the above
17. **Screws used to attach steel sheets shall be a minimum:**
- a) No. 8 modified truss head
 - b) No. 10 modified truss head
 - c) No. 12 modified truss head
 - d) No. 14 modified truss head
18. **Structural panels are permitted to be applied:**
- a) parallel to the framing
 - b) perpendicular to the framing
 - c) either a or b
 - d) None of the above
19. **If the shear force in a Type II shear wall increases,**
- a) the unit shear force will increase
 - b) the unit shear force will decrease
 - c) the unit shear force will not be affected
 - d) None of the above
20. **If the shear force in Type II shear wall increases,**
- a) the compression chord uplift force will decrease
 - b) the compression chord uplift force will increase
 - c) the compression chord uplift force will not be affected
 - d) None of the above

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