

## **Design of Steel Structures MCQ Test**

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**Q1. Which of the following is mainly an alloy of steel?**

- A. Zinc and Tin
- **B. Iron and Carbon**
- C. Sulphur and Zinc
- D. Phosphorous and Tin

**Q2. What is the effect of increased content of Sulphur and Phosphorous in Steel?**

- **A. Affects weldability**
- B. Yields high strength
- C. Increases resistance to corrosion
- D. Improves resistance to high temperature

**Q3. .... is the property of high carbon steel.**

- A. High strength
- B. High toughness
- **C. Reduced ductility**
- D. Reduced strength

**Q4. Which of the following method is mainly adopted for the design of steel structures as per IS code?**

- **A. Limit State Method**

- B. Ultimate Load Method
- C. Working Stress Method
- D. Earthquake Load Method

**Q5. Which of the following IS code is used for the general construction of steel?**

- A. IS 100
- B. IS 256
- C. IS 456
- D. IS 800

**Q6. .... is used in limit state method.**

- A. Load factor
- B. Wind factor
- C. Single safety factor
- D. Multiple safety factor

**Q7. What is the partial factor of safety for resistance governed by yielding?**

- A. 1.5
- B. 2.0
- C. 1.10
- D. 1.25

**Q8. What is not included in imposed load classification?**

- A. Industrial load
- B. Residential load
- C. Earthquake load
- D. Educational load

**Q9. Does Wind of the location not influence earthquake resistance design?**

- A. Yes
- B. No

**Q10. What does the Positive sign of pressure coefficient indicate?**

- A. Pressure acting away the surface
- B. Pressure acting above the surface
- C. Pressure acting below the surface
- **D. Pressure acting towards the surface**

**Q11. Which of the following option is correct?**

- **A. Size of hole = nominal diameter of fastener + clearances**
- B. Size of hole = nominal diameter of fastener / clearances
- C. Size of hole = nominal diameter of fastener x clearances
- D. Size of hole = nominal diameter of fastener – clearances

**Q12. Clip and seating angle connection is provided for .....**

- A. Hinged support
- **B. Lateral support**
- C. Bending support
- D. Frictional support

**Q13. Choose the correct option about bracket connections?**

- A. Fabrication cost is low
- **B. More rigid than any other connection**
- C. They are used to give aesthetic appearance to the structure
- D. These connections are used to accommodate less number of bolts

**Q14. Hydrogen is not used excessively for welding for which reason?**

- **A. Affects the weld**
- B. Increases welding rate
- C. Decreases welding rate
- D. Destroys the metal plate

**Q15. What kind of process does not have a high deposition rate?**

- A. Electro Slag welding
- B. Flux core arc welding
- C. **Shielded metal arc welding**
- D. Gas-shielded metal arc welding

**Q16. .... groove weld is used for plates of thickness more than 40mm.**

- A. Single-J
- B. Single-U
- C. **Double-U**
- D. Double-bevel

**Q17. What is the method of design of steel framework for the greatest rigidity and economy in weight?**

- A. Simply design
- B. **Fully rigid design**
- C. Semi-rigid design
- D. None of the above

**Q18. What is the most commonly used sections in the lateral system to carry shear forces in built-up columns?**

- A. Rolled angles
- B. Rolled steel flats
- C. Rolled channels
- D. **All of the above**

**Q19. Bulb angles are used in .....**

- A. **Ship building**
- B. Bridge building
- C. Column building
- D. Water tank building.

**Q20. The horizontal beams spanning between the wall columns supporting a wall covering are called ..... in factory buildings.**

- **A. Girts**
- B. Lintels
- C. Stringers
- D. Trimmers

**Q21. Which of the following is not included in imposed load classification**

- **A. Earthquake load**
- B. Industrial load
- C. Residential load
- D. Site Load

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