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Design of Steel Structures MCQ Test

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Below is the **Design of Steel Structures MCQ** test that checks your basic knowledge of the Design of Steel Structures. This **Design of Steel Structures MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Design of Steel Structures Quiz** Button.

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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