

**QUIZ NO: 506**

**TOPIC: STEEL STRUCTURES**

**DATE: 16/10/2021**

**1. The difference between gross diameter and nominal diameter for the rivets up to 25mm diameter is:**

[A] 1.0 mm

[B] 1.5 mm

[C] 2.0 mm

[D] 2.5 mm

**Answer: C**

**2. The type of stress induced in the foundation bolts fixing a column to its footing is:**

[A] Pure compression

[B] Bearing

[C] Pure tension

[D] Bending

**Answer: C**

**3. The heaviest I section for same depth is**

- [A] ISMB
- [B] ISLB
- [C] ISHB
- [D] ISWB

**Answer: C**

**4. When the bolts are subjected to reversal of stresses, the most suitable type of bolt is:**

- [A] Black bolts
- [B] Ordinary unfinished bolts
- [C] Turned and fitted bolts
- [D] High strength bolts

**Answer: D**

**5. The size of a rivet is identified by**

- [A] Diameter of shank
- [B] Diameter of head
- [C] Length of shank
- [D] Shape of head

**Answer: A**

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**6. Generally the maximum deflection of steel beam should not exceed:**

- [A]  $1/250$  of span
- [B]  $1/300$  of span
- [C]  $1/325$  of span
- [D]  $1/350$  of span

**Answer: C**

**7. Lateral buckling of beam starts from top flange because of**

- [A] Compression in top flange
- [B] Different nature of forces in top and bottom flange
- [C] Less value of shear force cross section
- [D] None of these

**Answer: A**

**8. In plastic analysis of structures , the segment between any two successive plastic hinges is assumed to deform as:**

- [A] A plastic material
- [B] A rigid material
- [C] An elastic material
- [D] An inelastic material

**Answer: B**

9. The shape factor for a rectangular section with width 'b' and depth 'd' is:

- [A] 1.5
- [B] 1.7
- [C] 2
- [D] 1.27

**Answer: A**

10. A tension member, if subjected to possible reversal of stress due to wind, the slenderness ratio of the member should not exceed:

- [A] 180
- [B] 250
- [C] 300
- [D] 350

**Answer: D**

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