

**QUIZ NO: 521**

**TOPIC: STEEL STRUCTURES**

**DATE: 23/11/2021**

- 1. At the location of plastic hinge,**
- [A] Radius of curvature is infinite
  - [B] Curvature is infinite
  - [C] Moment is infinite
  - [D] Flexible stress is infinite

**Answer: B**

- 2. The square root of the ratio of the moment of inertia of cross section to its cross sectional area is called:**

- [A] Second moment of area
- [B] Section modulus
- [C] Slenderness ratio
- [D] Radius of gyration

**Answer: D**

**3. For large span and heavy gravity loads which of the following will be economical?**

- [A] Beam
- [B] Arch
- [C] Truss
- [D] Plate girder

**Answer: D**

**4. A steel riveted plate girder is subjected to maximum BM of 150 tonne m. If maximum permissible bending stress is 1500 kg/cm<sup>2</sup> and web thickness is 10 mm, then the most economical depth of the girder will be:**

- [A] 110 cm
- [B] 120 cm
- [C] 130 cm
- [D] 140 cm

**Answer: A**

**5. The ratio of the plastic moment capacity of a beam section to its yield moment capacity  $Q$  is termed as:**

- [A] Aspect ratio
- [B] Load factor
- [C] Shape factor
- [D] Slenderness ratio

**Answer: C**

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6. As per IS 800:2007, the cross-section in which the extreme fiber can reach the yield stress, but cannot develop the plastic moment of resistance due to failure by local buckling is classified as:

- [A] Plastic section
- [B] Compact section
- [C] Semi compact section
- [D] Slender section

**Answer: C**

7. The shape factor for a Rhombus section is:

- [A] 2
- [B] 1.12
- [C] 1.7
- [D] 1.9

**Answer: A**

8. ....is the most important element which controls the physical properties of steel

- [A] Carbon
- [B] Chromium
- [C] Vanadium
- [D] Tungsten

**Answer: A**

**9. A bolt is specified by its:**

- [A] Pitch diameter
- [B] Core diameter
- [C] Minor diameter
- [D] Major diameter

**Answer: D**

**10. As per IS 800-1984, the pitch of rivets should not be less than:**

- [A] 1.5 times the nominal diameter
- [B] 2.00 times the nominal diameter
- [C] 2.5 times the nominal diameter
- [D] None of the above

**Answer: C**

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