

QUIZ NO: 744

TOPIC: STEEL STRUCTURES

DATE: 05/08/2023

1. 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

2. A bolt is specified by its

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

Answer: D

3. According to IS 800: 2007, identify the property which is considered as a mechanical property of structural steel, important in design

- [A] Unit mass
- [B] Maximum percent elongation
- [C] Co-efficient of thermal expansion
- [D] Poisson ratio

Answer: B

4. For a structural element in steel structure, which of the following is a limit state of strength?

- [A] Durability
- [B] Deflection
- [C] Torsion
- [D] Fire

Answer: C

5. The diameter of bolt hole can exceed the diameter of bolt by about

- [A] 1.5 mm to 2 mm
- [B] 2 mm to 5 mm
- [C] 1 mm to 3 mm
- [D] > 5 mm

Answer: C

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6. When two plates are placed end to end and are joined by two cover plates, the joint is known as

- [A] Lap joint
- [B] Butt joint
- [C] Chain riveted lap joint
- [D] Double cover butt joint

Answer: D

7. The distance between two bolts measured perpendicular to the direction of applied force is known as:

- [A] Pitch
- [B] Edge distance
- [C] Gauge
- [D] Staggered pitch

Answer: C

8. Rivets are made of

- [A] HYSD steel
- [B] Stainless steel
- [C] Mild steel
- [D] High tension steel

Answer: C

9. The cross-section of standard fillet is a triangle whose base angles are:

- [A] 45° and 45°
- [B] 30° and 60°
- [C] 40° and 50°
- [D] 20° and 70°

Answer: A

10. Fillet weld is not adopted for joining parts, when the angle between the fusion faces is:

- [A] $> 120^{\circ}$
- [B] $< 60^{\circ}$
- [C] Both a and b are correct
- [D] Both a and b are wrong

Answer: C

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