



9497498415

ANSWER KEY

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





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- 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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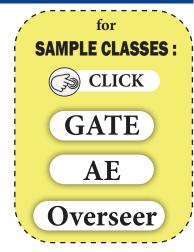
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- 6. When two plates are placed end to end and are joined by two cover plates, the joint is known as
 - [A] Lap joint
 - [B] Butt joint
 - [C] Chain riveted lap joint
 - [D] Double cover butt joint

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





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- 9. The cross-section of standard fillet is a triangle whose base angles are:
 - [A] 45⁰ and 45⁰
 - [B] 30° and 60°
 - [C] 40^0 and 50^0
 - [D] 20^0 and 70^0

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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