

QUIZ NO: 466

TOPIC: STEEL

DATE: 10/07/2021

1. The Structural steel (standard quality shall conform to:

- [A] IS 226
- [B] IS 2062
- [C] IS 800
- [D] IS 1977

Answer: A

2. The percentage elongation of mild steels of rolled shapes is about:

- [A] 23
- [B] 20
- [C] 8
- [D] 1.5

Answer: A

3. The section which has more lateral buckling strength compared to its counterpart sections of the same depth is:

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

Answer: C

4. Rolled I section provides:

- [A] Large moment of inertia about horizontal centroidal axis with less cross sectional area
- [B] Large moment of resistance as compared to other sections
- [C] Greater lateral stability
- [D] All of the above

Answer: D

5. Which of the following is not limit state of serviceability?

- [A] Deflection
- [B] Vibration
- [C] Brittle fracture
- [D] Fire

Answer: C

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6. Which of the following is not a limit state of strength?

- [A] Fracture due to fatigue
- [B] Vibration
- [C] Stability against sway and overturn
- [D] Rupture of structure

Answer: B

7. The partial safety factor for dead load and live load for a roof truss as per limit state of serviceability are respectively:

- [A] 1 and 1.5
- [B] 1.2 and 1.2
- [C] 1 and 1
- [D] 1.5 and 1.5

Answer: C

8. Poisson ratio of steel in elastic range is

- [A] 0.5
- [B] 0.3
- [C] 0.35
- [D] 0.4

Answer: B

9. The partial safety factor for material governed by buckling and yielding strength respectively

- [A] 1.1 and 1.1
- [B] 1.1 and 1.25
- [C] 1.25 and 1.1
- [D] 1.25 and 1.25

Answer: A

10. The necking of the steel section during tensile test takes place:

- [A] At yield stress
- [B] In strain hardening range
- [C] After reaching ultimate stress
- [D] At plastic yielding

Answer: C

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