

QUIZ NO: 370

TOPIC: STEEL STRUCTURES

DATE: 28/11/2020

1. The rivet line is also known as ____?

[1] Scribe Line

[2] Back Line

[3] Gauge Line

[4] All of these

Answer : D

2. A plastic hinge is a zone of yielding due to ____?

[1] tension

[2] compression

[3] flexure

[4] shear

Answer : C

3. Prying forces are ____?

- [1] friction forces
- [2] shear forces
- [3] tensile forces
- [4] bending forces

Answer : C

4. Plastic modulus of solid circular section is ____?

- [1] $d^2/8$
- [2] $d/6$
- [3] $d^3/6$
- [4] $d/3$

Answer : C

5. In a built-up section carrying tensile force, the flanges of two channels are turned outward?

- [1] to simplify the transverse connections
- [2] to minimize lacing
- [3] to have greater lateral rigidity
- [4] All of the above

Answer : C

6. The standard quality of structural steel shall conform to _____?

- [1] IS 800
- [2] IS 226
- [3] IS 2062
- [4] IS 1929

Answer : C

7. Which one of the following forces is used for the design of battens of a built up column?

- [1] Axial Load
- [2] Twisting Moment
- [3] Vertical Shear
- [4] Transverse Shear

Answer : D

8. In case of structural steel sections, the minimum ratio of thickness of elements in compression, in terms of their outstanding length is specified to prevent?

- [1] bending failure
- [2] shear failure
- [3] local buckling
- [4] tension failure

Answer : C

9. As per IS 800-1984, which one of the following stresses is independent of yield stress as a permissible stress for steel members?

- [1] Axial Tensile Stress
- [2] Maximum Shear Stress
- [3] Bearing Stress
- [4] Stress in slab base

Answer : D

10. Intermediate vertical stiffeners are provided in plate girders to?

- [1] eliminate web buckling
- [2] eliminate local buckling
- [3] transfer concentrated load
- [4] prevent excessive deflection

Answer : A

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