

QUIZ NO: 435

TOPIC : STEEL STRUCTURES

DATE: 29/04/2021

1. The weakest plane in a fillet weld is the ____?

- [1] smaller side of the fillet
- [2] throat of the fillet
- [3] Side perpendicular to the force
- [4] Side parallel to the force

Answer : B

2. 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

3. Which of the following is true about intermediate length compression members?

- [1] members will fail by yielding only
- [2] members will fail by both yielding and buckling
- [3] their behaviour is elastic
- [4] all fibers of the members will be elastic during failure.

Answer : B

4. 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

5. 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

6. 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

7. Web buckling occurs in a beam due to excessive?

- [1] Direct tensile stress in web
- [2] Bending tensile stress in the web
- [3] Torsional shear stress in the web
- [4] Compressive stress in the web

Answer : D

8. The shape factor of I section is?

- [1] 1
- [2] 1.12
- [3] 1.5
- [4] 2

Answer : B

9. In a situation where torsion is dominant which one of the following is the desirable section?

- [1] angle section
- [2] channel section
- [3] I-section
- [4] Box type section

Answer : D

10. In which connection is 100% joint efficiency possible?

- [1] Rivet connection
- [2] Bolt connection
- [3] Weld connection
- [4] Both Bolt and Weld connection

Answer : C

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