

QUIZ NO: 423

TOPIC : STEEL STRUCTURES

DATE: 01/04/2021

1. Hammering is done in rivets to ____?

- [1] give proper shape to rivet
- [2] completely fill up the rivet hole
- [3] partially fill up the rivet hole
- [4] make a rivet hole

Answer : B

2. The common assumption that all rivets in a joint share equal direct load is valid at a load ____?

- [1] below working load
- [2] equal to working load
- [3] more than working load
- [4] equal to failure load.

Answer : D

3. 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

4. The possibility of block shear failure increases?

- [1] with larger connection length
- [2] by increasing the number of bolts per connection
- [3] with use of low strength bolts
- [4] with use of high bearing strength material

Answer : D

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. 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

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. Where should splices in the columns be provided?

- [1] At the floor levels
- [2] At the mid height of the columns
- [3] At the beam-column joints
- [4] At one fourth height of columns

Answer : D

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. If the nominal diameter of a bolt is 18 mm, then what is the minimum width of a lacing bar according to IS 800:2007?

- [1] 36 mm
- [2] 45 mm
- [3] 54 mm
- [4] 72 mm

Answer : C

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