

QUIZ NO: 525

TOPIC: STEEL STRUCTURES

DATE: 02/12/2021

1. The maximum longitudinal pitch allowed in bolted joints of tension member is:

- [A] 16 times the diameter of the bolt
- [B] 32 times diameter of the bolt
- [C] 16 times the thickness of the plate
- [D] 32 times the thickness of the plate

Answer: C

2. The overlap of batten plates with the main members in welded connections should be more than

- [A] $2t$
- [B] $5t$
- [C] $6t$
- [D] $8t$

Answer: B

3. The maximum allowable slenderness ratio for axially loaded member carrying tension only is:

- [A] 180
- [B] 250
- [C] 350
- [D] 400

Answer: D

4. The maximum allowable slenderness ratio for members carrying compressive load due to wind and seismic force only is

- [A] 180
- [B] 250
- [C] 350
- [D] 400

Answer: B

5. The slenderness ratio of lacing bars should not exceed:

- [A] 120
- [B] 145
- [C] 180
- [D] 160

Answer: B

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6. The effective length of a steel column, effectively held in position and restrained against rotation at both ends is:

- [A] 0.80 L
- [B] 1.0 L
- [C] 0.5 L
- [D] 0.65 L

Answer: D

7. Bearing stiffeners are designed as:

- [A] Beams
- [B] Beam-ties
- [C] Ties
- [D] Column

Answer: D

8. The purpose of stiffeners in a plate girder is to:

- [A] Prevent buckling of web plate
- [B] Reduce the shear stress
- [C] Take care of bearing stress
- [D] Increases the moment carrying capacity of the girder

Answer: A

9. Horizontal stiffeners are needed in plate girders if the thickness of web is less than:

- [A] 6mm
- [B] Depth/200
- [C] Span/500
- [D] Flange thickness

Answer: B

10. Load on connection is not eccentric for:

- [A] Lap joint
- [B] Single cover butt joint
- [C] Double cover butt joint
- [D] All the above

Answer: C

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