

**QUIZ NO: 357**

**TOPIC: STEEL STRUCTURES**

**DATE: 29/10/2020**

1. Load on connection is not eccentric for \_\_\_\_\_?

- [1] Lap Joint
- [2] Single Cover Butt Joint
- [3] Double Cover Butt Joint
- [4] All of these

**Answer : C**

2. What is the yield strength of bolt of class 4.6?

- [1] 400 MPa
- [2] 240 MPa
- [3] 260 MPa
- [4] 300 MPa

**Answer : B**

3. Fillet weld is not recommended if the angle between fusion faces is?

- [1] less than 450
- [2] greater than 1200
- [3] less than 600
- [4] both b and c

**Answer : D**

4. Bolt value is?

- [1] minimum of shear strength and bearing capacity of bolt
- [2] maximum of shear strength and bearing capacity of bolt
- [3] shear strength of bolt
- [4] bearing capacity of bolt

**Answer : A**

5. Which one of the following is the mode of failure in a fillet weld material?

- [1] Tension
- [2] Shear
- [3] Bearing
- [4] Crushing

**Answer : B**

6. To transform an indeterminate frame with a degree of indeterminacy 'r' into a determinate one, the number of plastic hinges required is \_\_\_\_?

- [1]  $r+2$
- [2]  $r+1$
- [3]  $r$
- [4]  $r-1$

**Answer : C**

7. Only a portion of the area of outstanding leg in an angle section serving as tension member is considered in computing the effective area of the member. This is because?

[1] Near the joint, the outstanding leg does not take its full stress.

[2] The outstanding leg has a number of rivet holes reducing the net area.

[3] The outstanding leg is susceptible to buckling.

[4] Additional safety is preferred in the case of tension failure.

**Answer : A**

8. The slenderness ratio of lacing bars should not exceed?

[1] 100

[2] 120

[3] 180

[4] 145

**Answer : D**

9. The standard quality of structural steel shall conform to \_\_\_\_\_?

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

**Answer : C**

10. 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**

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