

**QUIZ NO: 604**

**TOPIC: STEEL STRUCTURES**

**DATE: 14/06/2022**

**1. Which of the following conditions is to be satisfied both in elastic and plastic analysis?**

- [A] Equilibrium condition
- [B] Yield condition
- [C] Plastic moment condition
- [D] Mechanism condition

**Answer: A**

**2. At the location of plastic hinge,**

- [A] Radius of curvature is infinite
- [B] Curvature is infinite
- [C] Moment is infinite
- [D] Flexible stress is infinite

**Answer: B**

**3. The size of a fillet weld is indicated by:**

- [A] Size of plate
- [B] Side of the triangle of fillet
- [C] Throat of the fillet
- [D] Length of fillet weld

**Answer: B**

**4. Lug angles are:**

- [A] Increase the shear lag
- [B] Unequal angles
- [C] Used to reduce the length of connection
- [D] None of the above

**Answer: C**

**5. Which one of the following pairs is correctly matched?**

- [A] Truss: Bending
- [B] Beam: Twisting
- [C] Column: Buckling
- [D] Shaft: shortening

**Answer: C**

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**6. As per IS 800-2007, what is the effective throat thickness of a completely penetrated butt weld?**

- [A] Thickness of the thinner plate
- [B] Thickness of thicker plate
- [C] Average of the thickness of the two plates
- [D] 1.5 mm less than the thickness of thicker plate

**Answer: A**

**7. End returns in a fillet weld are made \_\_\_\_\_:**

- [A] equal to twice the size of weld
- [B] equal to half the size of weld
- [C] equal to the size of weld
- [D] equal to thrice the size of weld

**Answer: A**

**8. Which one of the following is not mode of failure of a member under factored tensile force?**

- [A] Gross section yielding failure of a member
- [B] Crushing failure of a member
- [C] Net section rupture of a member
- [D] Block shear failure of a member

**Answer: B**

9. Tacking rivets in tension members, are provided at a pitch in line not exceeding:

- [A] 25 cm
- [B] 50 cm
- [C] 75 cm
- [D] 100 cm

**Answer: D**

10. If the same number of rivets has been used in the joints, then which of the following pattern will yield highest efficiency?

- [A] Chain
- [B] Staggered
- [C] Diamond
- [D] All of these

**Answer: C**

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