

QUIZ NO: 757

TOPIC: STEEL STRUCTURES

DATE: 14/09/2023

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

- [A] Tension
- [B] Shear
- [C] Bearing
- [D] Crushing

Answer: B

2. In a fillet weld the weakest section is the:

- [A] Smaller side of the fillet
- [B] Throat of the fillet
- [C] Side perpendicular to force
- [D] Side parallel to force

Answer: B

3. Design tensile strength of tension member is given by:

- [A] Rupture at a critical section
- [B] Yielding of gross section
- [C] Block shear of end region
- [D] Lesser of above three

Answer: D

4. The cross-section of standard fillet is a triangle whose base angles are:

- [A] 45° and 45°
- [B] 30° and 60°
- [C] 40° and 50°
- [D] 20° and 70°

Answer: A

5. The effective length of a fillet weld of length L and size S is given by:

- [A] $L - 2S$
- [B] $L - S$
- [C] $L - 0.5 S$
- [D] $L - 0.4 S$

Answer: A

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6. Maximum size of the fillet weld for a plate of square edges is:

- [A] 1.5 mm less than the thickness of the thinner plate
- [B] 1.5 mm less than the thickness of the thicker plate
- [C] 1.5 mm more than the thickness of the thinner plate
- [D] Thickness of the thinner plate itself

Answer: A

7. To the calculated area of cover plates of a built-up beam, an allowance for rivet holes to be added is:

- [A] 0.1
- [B] 0.13
- [C] 0.15
- [D] 0.18

Answer: B

8. The connection of one beam to another beam by means of an angle at the bottom and an angle at the top, is known as:

- [A] Unstiffened seated connection
- [B] Stiffened seated connection
- [C] Seated connection
- [D] None of these

Answer: C

9. In a steel beam section, the web carries:

- [A] The compression
- [B] The tension
- [C] The moment
- [D] The shear

Answer: D

10. Which of the following structural loads are not applied commonly to a building?

- [A] Dead load
- [B] Rain load
- [C] Live load
- [D] Environmental load

Answer: B

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