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ANSWER KEY

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





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- 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 $^{\rm 0}$ and 45 $^{\rm 0}$
 - [B] 30 $^{\rm 0}$ and 60 $^{\rm 0}$
 - [C] 40 $^{\rm 0}$ and 50 $^{\rm 0}$
 - [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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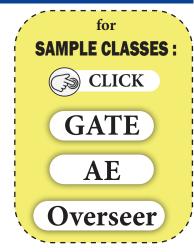
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- 6. Maximum size of the fillet weld for a plate of square edges is:
 - [A] 1.5 mm less than the thickness of the thinner plate
 - [B] 1.5 mm less than the thickness of the thicker plate
 - [C] 1.5 mm more than the thickness of the thinner plate
 - [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





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- 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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