

QUIZ NO: 447

TOPIC: STEEL STRUCTURES

DATE: 27/05/2021

1. Holes in beam webs should be placed at ____ and in flanges it should be placed at _____?

[1] high shear, high bending moment

[2] high bending moment, high shear

[3] low bending moment, low shear

[4] low shear, low bending moment

Answer : D

2. What is castellated beam?

[1] beam with no openings in web

[2] beam with number of regular openings in web and flange

[3] beam with number of regular openings in web

[4] beam with number of regular openings in flange

Answer : C

3. A plate girder is used when?

[1] span is large and loads are heavy

[2] span is small and loads are heavy

[3] span is small and loads are light

[4] span is large and loads are light

[MARKS] 1 **Answer : A**

4. Which of the following angle should be ideally used in bolted plate girder flange?

[1] bulb angle

[2] equal angle

[3] unequal angle with short leg horizontal

[4] unequal angle with long leg horizontal

Answer : D

5. As per IS 800-2007, what is the load factor considered for steel structures when combination of dead load and earthquake load is considered?

[1] 1.5

[2] 1.3

[3] 1.2

[4] 1.7

Answer : C

6. The rolled steel section used in a cased beam has width B mm and diameter D mm. The minimum width of the finished cased beam in mm is given by?

[1] $(B + 50)$

[2] $(B + 100)$

[3] $(B + D + 100)$

[4] $2(B + D)$

Answer : B

7. Of the 4 classified sections for steel which section's design is not given in IS 800-2007?

- [1] Plastic
- [2] Compact
- [3] Semi-compact
- [4] Slender

Answer : D

8. Which of the following groove weld is used for plates of thickness more than 40mm?

- [1] Double-bevel
- [2] Single-J
- [3] Single-U
- [4] Double-U

Answer : D

9. Which of the following type of weld is most suitable for T-joints?

- [1] Fillet Weld
- [2] Groove Weld
- [3] Slot Weld
- [4] Plug Weld

Answer : A

10. In practice, secondary beams are connected to main beams by _____?

- [1] web cleats
- [2] bolts
- [3] seating angle
- [4] web cleats and bolts

Answer : A

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