

QUIZ NO: 499

TOPIC: MECHANICS OF SOLIDS

DATE: 28/09/2021

1. The stress based on actual area of cross section during tension stage of a mild steel specimen is called

- [A] Nominal stress
- [B] Normal stress
- [C] True stress
- [D] Yield stress

Answer: C

2. Which of the following is considered as a true characteristic yield for mild steel?

- [A] Proof stress
- [B] Normal stress
- [C] Upper yield stress
- [D] Lower yield stress

Answer: D

3. A material which undergo no deformation till its yield point is reached and then it flow at a constant stress is:

- [A] Elasto plastic
- [B] Rigid plastic
- [C] Non plastic
- [D] Plastic

Answer: B

4. As soon as external forces causing deformation in a perfectly elastic body are withdrawn, the deformation disappears,

- [A] Only partially
- [B] Completely over prolonged period of time
- [C] Completely and instantaneously
- [D] Completely after an initial period of rest

Answer: C

5. Modulus of elasticity of high tensile steel is:

- [A] Smaller than that of mild steel
- [B] Equal to that of mild steel
- [C] Larger than that of mild steel
- [D] Equal to that of aluminium

Answer: B

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6. For a given area (A) and depth (h) the moment of inertia of a rectangular section as compared to a circular section is:

- [A] Less
- [B] More
- [C] Equal
- [D] None

Answer: B

7. When the diameter of the circular section is doubled, its radius of gyration:

- [A] Is reduced to half
- [B] Increased 8 times
- [C] Doubled
- [D] Increased by 3 times

Answer: C

8. A beam is said to be uniform strength when

- [A] Maximum shear stress is same every where
- [B] Maximum bending stress is same everywhere
- [C] Both the above
- [D] None

Answer: B

9. A portion of a beam between two sections is said to be in pure bending when there is:

- [A] Constant B.M and S.F
- [B] Constant S.F and zero B.M
- [C] Constant B.M and zero S.F
- [D] None of the above

Answer: C

10. The shape of shear stress distribution diagram for a rectangular beam is

- [A] Parabola
- [B] Rectangle
- [C] Hyperbola
- [D] None

Answer: A

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