

QUIZ NO: 484

TOPIC: MECHANICS OF SOLIDS

DATE: 24/08/2021

1. The Stress at a point is a:

- [A] Vector
- [B] Tensor
- [C] Scalar
- [D] None of the above

Answer: B

2. 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] Yield stress
- [D] True Stress

Answer: D

3. A strut is a member which is primarily subjected to:

- [A] Axial tension
- [B] Flexural compression
- [C] Axial compression
- [D] Flexural Tension

Answer: C

4. Shear strain is defined as:

- [A] Change in angle between planes at right angles
- [B] Rate of change of angle
- [C] Change in angle between two planes
- [D] Distortion of fibers

Answer: A

5. The property of material by which it can be beaten (or) rolled into plates is called:

- [A] Ductility
- [B] Plasticity
- [C] Malleability
- [D] Elasticity

Answer: C

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6. For Engineering Materials, Poisson's ratio lies between

- [A] -ve to 0.5
- [B] 0 to 1
- [C] 0 to 0.5
- [D] -1 to 1

Answer: C

7. If an element is subjected to pure shearing stress 'q', then the maximum principal stress is equal to

- [A] $2q$
- [B] $q/2$
- [C] q
- [D] q^2

Answer: C

8. Number of independent reaction components for a hinges support are:

- [A] 0
- [B] 2
- [C] 1
- [D] 3

Answer: B

9. The point of contraflexure are the points where

- [A] SF is zero
- [B] Deflection is zero
- [C] BM and SF is zero
- [D] None of the above

Answer: D

10. Moment of inertia of section is lowest if it is taken about an axis passing through:

- [A] Base of the section
- [B] Top most point of section
- [C] Centroid
- [D] Any of the above

Answer: C

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