

QUIZ NO: 811

TOPIC: MECHANICS OF SOLIDS

DATE: 28/03/2024

1. Permanent set is

- [A] The force which acts permanently on the body
- [B] Irrecoverable deformation in the body
- [C] The shape of the member just after completion of construction
- [D] Ratio of Poisson's Ratio to Young's Modulus.

Answer: B

2. In a Uni-axial tension test on a mild steel bar, the Lueders' lines will be

- [A] Inclined at 45° to the direction of tensile stress applied
- [B] Perpendicular to the direction of tensile stress applied
- [C] Along the direction of tensile stress
- [D] None of the above.

Answer: A

3. The stress at which extension of a material takes place more quickly as compared to the increase in load is called _____

- [A] Elastic point
- [B] Plastic point
- [C] Breaking point
- [D] Yielding point

Answer: D

4. The deformation per unit length is called

- [A] Tensile stress
- [B] Compressive stress
- [C] Shear stress
- [D] Strain

Answer: D

5. The ratio of direct stress to the linear strain is called

- [A] Modulus of rigidity
- [B] Modulus of elasticity
- [C] Bulk modulus
- [D] Poisson's ratio

Answer: B

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6. Modulus of rigidity may be defined as the ratio of

- [A] Linear stress to lateral strain
- [B] Lateral strain to Linear stress
- [C] Linear stress to Linear strain
- [D] Shear stress to shear strain

Answer: D

7. For a simply supporting beam on two end supports the Bending Moment is maximum:

- [A] Usually on the supports
- [B] Always at mid-span
- [C] Where there is no shear force
- [D] Where the deflection is maximum

Answer: C

8. A principal plane is a plane which carries

- [A] Maximum shear stress
- [B] The given stresses of higher magnitude acting
- [C] No shear stress
- [D] Plane inclined at 45° to x-axis.

Answer: C

9. For a given shear force across a symmetrical I – section, the intensity of shear is maximum at

- [A] Extreme fibres
- [B] Centroid of the section
- [C] At the junction of the flange and the web on the web
- [D] At the junction of the flange and the web but on the flange

Answer: B

10. The transverse shear stress acting in a beam of rectangular cross-section, subjected to a transverse shear load is

- [A] Variable with maximum at the bottom of the beam
- [B] Variable with maximum at the top of the beam
- [C] Uniform
- [D] Variable with maximum at the neutral axis

Answer: D

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