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Quiz

ANSWER KEY

QUIZ NO: 834

TOPIC: MECHANICS OF SOLIDS

DATE: 04/06/2024

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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