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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





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	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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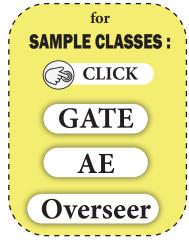


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### 6. Modulus of rigidity may be defined as the ratio of

- [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





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- 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 crosssection, 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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