

Engineering Mechanics MCQ Questions and Answers Pdf

1. Deformation per unit length in the direction of force is known as

- a. strain
- b lateral strain
- c. linear strain
- d. linear stress
- e. unit strain

Ans: C

2. Modulus of rigidity is defined as the ratio of

- a. longitudinal stress and longitudinal strain
- b. volumetric stress and volumetric strain
- c. lateral stress and lateral strain
- d. shear stress and shear strain
- e. linear stress and lateral strain

Ans: D

3. The intensity of stress which causes unit strain is called

- a. unit stress
- b. bulk modulus
- c. modulus of rigidity
- d. modulus of elasticity
- e. principal stress

Ans: D

4. Poisson's ratio is defined as the ratio of

- a. longitudinal stress and longitudinal strain
- b. longitudinal stress and lateral stress
- c. lateral stress and longitudinal stress
- d. lateral stress and lateral strain

Ans: C

5. The elasticity of various materials is controlled by its

- a. ultimate tensile stress
- b. proof stress
- c. stress at yield point
- d. stress at elastic limit

Ans: D

6. The ratio of lateral strain to the linear strain within elastic limit is known as

- a. Young's modulus
- b. bulk modulus
- c. modulus of rigidity
- d. modulus of elasticity
- e. poisson's ratio

Ans: E

7. The energy absorbed in a body, when it is strained within the elastic limits, is known as

- a. strain energy
- b. resilience
- c. proof resilience
- d. modulus of resilience
- e. toughness

Ans: A

8. The total strain energy stored in a body is termed as

- a. resilience
- b. proof resilience
- c. modulus of resilience
- d. toughness
- e. impact energy

Ans: A

9. A material capable of absorbing large amount of energy before fractures is known as

- a. ductility
- b. toughness
- c. resilience
- d. shock proof
- e. plasticity

Ans: B

10. A non-yielding support implies that the

- a. support is frictionless
- b. support can take any amount of reaction
- c. support holds member firmly
- d. slope of the beam at the support is zero

Ans: D