

## QUIZ NO: 571

### TOPIC: MECHANICS OF SOLIDS

DATE: 24/03/2022

1. 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**

2. 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**

**3. Strain rosette's are used to**

- [A] Measure shear strain
- [B] Measure linear strain
- [C] Measure volumetric strain
- [D] Relieve strain

**Answer: B**

**4. When a bar is subjected to change of temperature and its deformation is prevented, the stress induced in the bar is**

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

**Answer: D**

**5. The thermal or temperature stress is a function of**

- [A] Increase in temperature
- [B] Modulus of elasticity
- [C] Coefficient of linear expansion
- [D] All of the above

**Answer: D**

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6. The ratio of shear modulus to the modulus of elasticity for a Poisson's ratio of 0.4 will be

- [A]  $5/7$
- [B]  $7/5$
- [C]  $5/14$
- [D]  $14/5$

**Answer: C**

7. The property particularly useful in operation of pressing and forging is

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

**Answer: B**

8. Simple stress is often called

- [A] Direct stress
- [B] Transverse stress
- [C] Total stress
- [D] None of these

**Answer: A**

9. The strain energy stored in a spring when subjected to greatest load without being permanently distorted is called

- [A] Stiffness
- [B] Proof resilience
- [C] Proof stress
- [D] Proof load

**Answer: B**

10. The materials which exhibit the same elastic properties in all direction are called

- [A] Inelastic
- [B] Homogeneous
- [C] Isotropic
- [D] Isentropic

**Answer: C**

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