

**QUIZ NO: 503**

**TOPIC: MECHANICS OF SOLIDS**

**DATE: 07/10/2021**

**1. Transverse Contraction/Longitudinal Extension**

- [A] Shear Modulus
- [B] Poisson's Ratio
- [C] Elasticity
- [D] Rupture stress

**Answer: B**

**2. The capacity of a strained body for doing work on the removal of the straining force is called**

- [A] Strain Energy
- [B] Resilience
- [C] Proof stress
- [D] Modulus of Resilience

**Answer: B**

3. The neutral axis of the cross section in a beam is that axis at which the bending stress is

- [A] Zero
- [B] Minimum
- [C] Maximum
- [D] Infinity

**Answer: A**

4. When shear force of a point is zero, the bending moment is \_\_\_\_\_ at that point is:

- [A] Zero
- [B] Minimum
- [C] Maximum
- [D] Infinity

**Answer: C**

5. The ratio of moment carrying capacity of a circular beam of diameter D and a square beam of size D is

- [A]  $\pi/4$
- [B]  $3\pi/8$
- [C]  $\pi/3$
- [D]  $3\pi/16$

**Answer: D**

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**6. In Spring balances, the spring is used:**

- [A] To apply forces
- [B] To measure forces
- [C] To absorb shocks
- [D] To store Strain energy

**Answer: B**

**7. The load at which the column just buckles is known as:**

- [A] Buckling load
- [B] Critical load
- [C] Crippling load
- [D] Any one of these

**Answer: D**

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

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

**Answer: B**

9. The Poisson's ratio of a material having Young's modulus 200 GPa and Rigidity Modulus 80 GPa is:

- [A] 0.2
- [B] 0.25
- [C] 0.4
- [D] 0.5

**Answer: B**

10. Slenderness ratio of a member is defined as the ratio of the effective length to the —— of a section:

- [A] Moment of inertia
- [B] Radius of gyration
- [C] Thickness
- [D] Area

**Answer: B**

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