

**QUIZ NO: 478**

**TOPIC: STRENGTH OF MATERIALS**

**DATE: 06/08/2021**

**1. Every material obey Hooke's law within its**

- [A] Elastic limit
- [B] Plastic limit
- [C] Limit of proportionality
- [D] None of the above

**Answer: C**

**2. If a part is constrained to move and heated, it will develop \_\_\_\_\_ stress**

- [A] Shear
- [B] Tensile
- [C] Principal
- [D] Compressive

**Answer: D**

**3. Poisson's ratio**

- [A] Linear strain/Lateral strain
- [B] Shear stress/ Shear strain
- [C] Change in volume/ Original volume
- [D] Lateral strain/ Linear strain

**Answer: D**

**4. If young's modulus and bulk modulus of a material are same, the poisson ratio is:**

- [A] 1/4
- [B] 3/4
- [C] 2/3
- [D] 1/3

**Answer: D**

**5. The unit of strain is**

- [A] mm
- [B] Kg.cm
- [C] N/mm<sup>2</sup>
- [D] No unit

**Answer: D**

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**6. Tension test in reinforcing steel bar carried out on a test piece of gauge length:**

- [A] 5.95  $\sigma_A$
- [B] 6.65  $\sigma_A$
- [C] 5.65  $\sigma_A$
- [D] 4.65  $\sigma_A$

**Answer: C**

**7. The deformation per unit length is called**

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

**Answer: C**

**8. The force per unit area:**

- [A] Joule
- [B] Energy
- [C] Velocity
- [D] Pressure

**Answer: D**

9. Find the temperature stress developed on a rod of 20 m length when the strain is controlled for  $1/4000$ . The value of  $E$  is  $2 \times 10^5 \text{ N/mm}^2$

- [A]  $48 \text{ N/mm}^2$
- [B]  $55 \text{ N/mm}^2$
- [C]  $50 \text{ N/mm}^2$
- [D]  $1000 \text{ N/mm}^2$

**Answer: C**

10. Flexural stress developed in a material results in

- [A] Tensile stress
- [B] Compressive stress
- [C] Shear stress
- [D] Combination of tensile and compressive stress

**Answer: D**

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