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Centre for Civil Engg. Competitive Exams
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Quiz
ANSWER KEY

QUIZ NO: 788

TOPIC: MECHANICS OF SOLIDS

DATE: 28/12/2023

1. **In the case of equivalent torque when compared with combined action of torsion and bending, which is considered as same**

[A] Shear stress

[B] Max shear stress

[C] Bending stress

[D] Max bending stress

Answer: B

2. **Strain energy is**

[A] Area of resistance deformation curve

[B] Area of load deformation curve

[C] Area of stress- strain curve

[D] Area of shear force diagram

Answer: A

3. Area of shear force diagram is:

[A] Strain energy

[B] Work done

[C] Modulus of toughness

[D] Bending moment

Answer: D

4. Mathematically, strain energy = _____

[A] Power

[B] Work done

[C] Young's Modulus

[D] Energy

Answer: B

5. The strain energy of a body due to suddenly applied when compared to gradually applied load is

[A] Same

[B] 2 times

[C] 4 times

[D] Half

Answer: C

6. **The Total strain energy stored in a body is called as...**

   [A] Proof resilience

   [B] Modulus of resilience

   [C] Resilience

   [D] Impact energy

   Answer: C

7. **The unit of modulus of resilience is....**

   [A] N/mm^3

   [B] N/mm^2

   [C] N/mm

   [D] N/m

   Answer: B

8. **Resilience of material is important when it is subjected to**

   [A] Thermal stress

   [B] Shocking load

   [C] Wear and tear

   [D] Fatigue

   Answer: B

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9. Torsional rigidity is:

[A] $G\theta$

[B] EI

[C] GJ

[D] None of these

Answer: C

10. The intensity of shear stress at a section is _____ to the distance of the section from the axis of the shaft

[A] Inversely proportional

[B] Directly proportional

[C] Equal

[D] Parallel

Answer: B

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