

QUIZ NO: 556

TOPIC: STRUCTURAL ANALYSIS

DATE: 17/02/2022

1. The centre of gravity of a triangular section lies on

- [A] $1/3$ height from base
- [B] $1/3$ height from vertex
- [C] $2/3$ height from base
- [D] $1/4$ height from vertex

Answer: A

2. The centre of gravity of right circular hollow cone of diameter d and height h lie at a vertical distance of _____ from the base

- [A] $h/2$
- [B] $h/3$
- [C] $h/4$
- [D] $h/6$

Answer: C

3. Which of the following has highest value of Poisson's ratio?

- [A] Rubber
- [B] Steel
- [C] Aluminum
- [D] Copper

Answer: A

4. A beam encased at both ends is _____

- [A] SSB
- [B] Fixed beam
- [C] Continuous
- [D] Cantilever

Answer: B

5. The bending moment at the free end of a cantilever beam carrying any type of load is

- [A] Minimum
- [B] Maximum
- [C] Zero
- [D] Equal to load

Answer: C

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6. The bending moment diagram for a cantilever beam carrying point load at the free end will be

- [A] Parabola
- [B] Rectangle
- [C] Triangle
- [D] Cubic parabola

Answer: C

7. Ability of a material to absorb energy with the elastic range

- [A] Toughness
- [B] Elasticity
- [C] Stiffness
- [D] Resilience

Answer: D

8. The property of a solid to sustain shock load without permanent deformation

- [A] Tenacity
- [B] Quenching
- [C] Milling
- [D] Resilience

Answer: D

9. A section subjected to axial pushes acting normally across the section, the stress set up is known as

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

Answer: C

10. The Poisson's ratio of a material is 0.3 and young's modulus is 200 GPa, its rigidity modulus is

- [A] 77 GPa
- [B] 51 GPa
- [C] 125 GPa
- [D] 333 GPa

Answer: A

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