

QUIZ NO: 821

TOPIC: STRENGTH OF MATERIALS

DATE: 30/04/2024

1. The radius of core of a circular column of diameter 'd' is?

[A] $d/8$

[B] $d/4$

[C] $d/6$

[D] $d/16$

Answer: A

2. The equivalent length of an electric pole of length 'L' is?

[A] L

[B] 0.65 L

[C] 2L

[D] 0.85 L

Answer: C

3. A beam is a structural member predominantly subjected to?

- [A] Transverse loads
- [B] Axial forces
- [C] Twisting moment
- [D] None of these

Answer: A

4. Euler's formula holds good for only?

- [A] Short columns
- [B] Both long and short columns
- [C] Intermediate columns
- [D] Long columns

Answer: D

5. A closely coiled helical spring is cut into two halves. The stiffness of the resulting spring will be?

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

Answer: D

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6. The most commonly used spring for truck, trailer, and railway carriage is

- [A] Helical Spring
- [B] Leaf spring
- [C] Extension spring
- [D] Compression Spring

Answer: B

7. Bending moment at any section in a conjugate beam gives _____
in the actual beam?

- [A] Curvature
- [B] Shear
- [C] Deflection
- [D] Slope

Answer: C

8. Fixed end in a real beam becomes _____ in conjugate beam?

- [A] Free end
- [B] Hinged end
- [C] Internal support
- [D] Internal hinge

Answer: A

9. The phenomenon of decreased resistance of material due to reversal of stress is called?

- [A] Creep
- [B] Fatigue
- [C] Resilience
- [D] Plasticity

Answer: B

10. The shear stress at any section of the shaft is maximum?

- [A] At outer surface
- [B] At a distance $r/2$ from centre
- [C] At centre
- [D] At a distance $3/4r$ from centre

Answer: A

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