



ANSWER KEY

**QUIZ NO: 813** 

**TOPIC: STRENGTH OF MATERIALS** 

DATE: 04/04/2024

- 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





ANSWER KEY

;	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	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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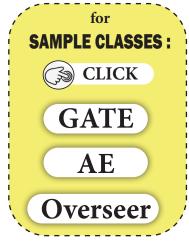


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6.	The most commonly used spring for truck, trailer, and railway carriage is
	[A] Helical Spring
	[B] Leaf spring
	[C] Extension spring
	[D] Compression Spring
	Answer: B
<b>7.</b>	Bending moment at any section in a conjugate beam gives
i	in the actual 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





ANSWER KEY

- 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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