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ANSWER KEY

QUIZ NO: 825

TOPIC: ENGINEERING MECHANICS

DATE: 09/05/2024

- 1. Horizontal distance through which projectile travel in its flight
- [A] Time of flight
- [B] Horizontal range
- [C] Range
- [D] None of these

Answer: B

- 2. For maximum time of flight, the value of angle of projection is
 - [A] 45°
 - [B] 180°
 - [C] 90°
 - [D] 30°

Answer: C





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3. Shape of a trajectory i	ıs:
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- [A] Hyperbola
- [B] Parabola
- [C] Linear
- [D] Ellipse

Answer: B

4. Principle used to convert a dynamic problem into a static equilibrium problem

- [A] Varignon's theorem
- [B] Lami's theorem
- [C] De'Alembertz Principle
- [D] None of these

Answer: C

5. The time elapsed between the instant of maximum deformation to instant of separation?

- [A] Time of flight
- [B] Time of restitution
- [C] Time of deformation
- [D] None of these

Answer: B

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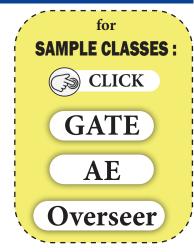
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- 6. The most commonly used spring for truck, trailer, and railway carriage is
 - [A] Helical Spring
 - [B] Leaf spring
 - [C] Extension spring
 - [D] Compression Spring

Answer: B

- 7. When a body is moving in a circular path, the force acts radially inwards:
 - [A] Centrifugal force
 - [B] Impulse
 - [C] Angular displacement
 - [D] Centripetal force

Answer: D

- 8. Vibration happens parallel to the axial direction and induce tensile and compressive stress is?
 - [A] Torsional vibration
 - [B] Transverse or lateral vibration
 - [C] Axial or longitudinal vibration
 - [D] Forced vibration

Answer: C





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9. A non-reversible machine is also known as?

- [A] Self-locking machine
- [B] Reversible machine
- [C] Ideal machine
- [D] All of these

Answer: A

10. For reversible machine, Efficiency is:

- [A] 100%
- [B] Less than 50%
- [C] Greater than 50%
- [D] None of these

Answer: C

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