

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

3. Shape of a trajectory is:

- [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'Alembert's 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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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

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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