

**QUIZ NO: 440**

**TOPIC: ENGINEERING MECHANICS**

**DATE: 11/05/2021**

1. The algebraic sum of the resolved parts of a number of forces in a given direction is equal to the resolved part of their resultant in the same direction. This is as per the principle of?

- [1] Forces
- [2] Independence of forces
- [3] Dependence of forces
- [4] Resolution of forces

**Answer: D**

2. The centre of gravity of a uniform lamina lies at?

- [1] The centre of heavy portion
- [2] The bottom surface
- [3] The intersection of symmetric axis
- [4] All of the above

**Answer: C**

3. Which of the following do not have identical dimensions?

- [1] Momentum and impulse
- [2] Torque and work
- [3] Kinetic energy and potential energy
- [4] Moment of a force and angular momentum

**Answer: D**

4. Two non-collinear parallel equal forces acting in opposite direction?

- [1] Balance each other
- [2] Constitute a moment
- [3] Constitute a couple
- [4] Constitute a moment of couple

**Answer: C**

5. The locus of the instantaneous centre of a moving rigid body, is?

- [1] Centroid
- [2] Centrode
- [3] Centre of gravity
- [4] None of the above

**Answer: B**

6. The angles between two forces to make their resultant a minimum and a maximum respectively are?

- [1]  $0^\circ$  and  $90^\circ$
- [2]  $180^\circ$  and  $90^\circ$
- [3]  $90^\circ$  and  $180^\circ$
- [4]  $180^\circ$  and  $0^\circ$

**Answer: D**

7. The angle which an inclined surface makes with the horizontal when a body placed on it is on the point of moving down, is called?

- [1] Angle of repose
- [2] Angle of friction
- [3] Angle of inclination
- [4] None of these

**Answer: A**

8. If a body moves in such a way that its velocity increases by equal amount in equal intervals of time, it is said to be moving with?

- [1] A uniform retardation
- [2] A uniform acceleration
- [3] A variable acceleration
- [4] A variable retardation

**Answer: B**

9. The inherent property of a body which offers reluctance to change its state of rest or uniform motion, is?

- [1] Weight
- [2] Mass
- [3] Inertia
- [4] Momentum

**Answer: C**

10. The total time of collision and restitution of two bodies, is called?

- [1] Time of collision
- [2] Period of collision
- [3] Period of impact
- [4] All the above

**Answer: D**

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