

**QUIZ NO: 427**

**TOPIC : ENGG MECHANICS**

**DATE: 10/04/2021**

1. Forces are called concurrent when their lines of action meet in?

- [1] One point
- [2] Two points
- [3] Plane
- [4] Perpendicular planes

**Answer : A**

2. A number of forces acting at a point will be in equilibrium if?

- [1] Their total sum is zero
- [2] Two resolved parts in two directions at right angles are equal
- [3] Sum of resolved parts in any two perpendicular directions are both zero
- [4] All of them are inclined equally

**Answer : C**

3. 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**

4. When a particle moves along a straight path, then the particle has?

- [1] Tangential acceleration only
- [2] Centripetal acceleration only
- [3] Both tangential and centripetal acceleration
- [4] None of the mentioned

**Answer : A**

5. The unit of force in S.I. units is?

- [1] Kilogram
- [2] Newton
- [3] Watt
- [4] Dyne

**Answer : B**

6. 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**

7. Which of the following is not the unit of distance?

- [1] Angstrom
- [2] Light year
- [3] Micron
- [4] Milestone

**Answer : D**

8. When trying to turn a key into a lock, following is applied?

- [1] Coplanar force
- [2] Lever
- [3] Moment
- [4] Couple

**Answer : D**

9. Which of the following is not a scalar quantity?

- [1] Mass
- [2] Volume
- [3] Density
- [4] Acceleration

**Answer : D**

10. D' Alembert's principle is used for?

- [1] Reducing the problem of kinetics to equivalent statics problem
- [2] Determining stresses in the truss
- [3] Stability of floating bodies
- [4] Designing safe structures

**Answer : A**

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