

Duration: 30 Mins

Total Marks: 10

ID: ITISKILL3025RV

Student Name: _____

Roll No: _____

1. What is the name of the point at which all the weight of the body concentrated?

- A) Central point B) Centroid
C) Initial point D) Centre of gravity

2. Which one of the following geometrical shapes centre of gravity lies from its base is $\frac{1}{3}$ of its height?

- A) Square B) Cone
C) Rhombus D) Triangle

3. Which state of equilibrium's example is, A cone resting on its base?

- A) Both A and B B) Neutral
C) Un-stable D) Stable

4. What is the centre of gravity of a solid hemisphere from its base?

- A) $\frac{3r}{8}$ B) $\frac{r}{2}$
C) $\frac{4r}{5}$ D) $\frac{3r}{4}$

5. What is the centre of gravity of a right circular cone from its base?

- A) $\frac{h}{5}$ B) $\frac{h}{4}$
C) $\frac{h}{2}$ D) $\frac{h}{3}$

6. Where the centre of gravity of a circle lies?

- A) Any where on its diameter B) Any where on its radius
C) Any where on its circumference D) At its centre

7. What is the centre of gravity of a sphere?

- A) At the diameter B) On the circumference
C) At the centre D) At the radius

8. Which affects the centre of gravity of the object?

- A) Density B) Weight
C) Shape D) Mass

9. Which state of equilibrium's example is A cone resting on its tip?

- A) Stable B) Horizontal
C) Neutral D) Unstable

10. What is the centre of gravity of a rectangular body?

- A) At the point of intersection of its diagonals B) At the corners
C) Longer side of rectangle D) Shorter side of rectangle