

Duration: 30 Mins

Total Marks: 11

ID: ITISKILL7208ZD

Student Name: _____

Roll No: _____

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

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

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

- A) $3r/8$ B) $3r/4$
C) $4r/5$ D) $r/2$

3. Which one of the following geometrical shapes centre of gravity lies from its base is $1/3$ of its height?

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

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

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

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

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

6. What is the centre of gravity of a semi circle of diameter 12 cm?

- A) 2.24 cm B) 2.54 cm
C) 2.75 cm D) 3.25 cm

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

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

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

- A) $h/2$ B) $h/5$
C) $h/4$ D) $h/3$

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

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

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

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

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

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