

Duration: 60 Mins

Total Marks: 11

ID: ITISKILL4731NO

Student Name: _____	Roll No: _____
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1. What is the centre of gravity of a semi circle of diameter 12 cm?

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

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

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

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

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

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

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

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

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

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

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

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

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

8. Which affects the centre of gravity of the object

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

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

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

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

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

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

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