

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 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

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

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

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

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

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

3. Which affects the centre of gravity of the object

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

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

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

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

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

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

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

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

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

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

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

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

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

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