

Duration: 30 Mins

Total Marks: 11

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

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

Answer: C) $3r/8$

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

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

Answer: A) Triangle

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

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

Answer: D) At its centre

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

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

Answer: B) Stable

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

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

Answer: C) Centre of gravity

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

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

Answer: B) At the point of intersection of its diagonals

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

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

Answer: C) At the centre

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

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

Answer: D) $h/4$

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

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

Answer: D) 2.54 cm

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

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

Answer: D) Unstable

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

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

Answer: C) Mass