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Code: 3249

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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