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Code: 7737

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

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

A) $4r/5$

B) $3r/8$

C) $3r/4$ (Incorrect)

D) $r/2$

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

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

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

A) At the centre

B) On the circumference (Incorrect)

C) At the diameter

D) At the radius

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

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

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

A) Stable

B) Neutral (Incorrect)

C) Unstable

D) Horizontal

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

- A) $h/2$
 B) $h/3$ (Incorrect)
C) $h/4$
 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

B) Rhombus

C) Triangle (Correct)

D) Cone

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

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

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

A) Un-stable

B) Neutral

C) Stable (Correct)

D) Bothe 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

B) 2.54 cm (Correct)

C) 3.25 cm

D) 2.75 cm