

Student: Madhan.G**Score: 9/11 (81.82%)****Code: 7967****1.** Which affects the centre of gravity of the object?

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

A) $4r/5$ C) $3r/4$ **B) $3r/8$ (Correct)**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 (Correct)**
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
(Incorrect)

D) At the radius

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

- A) At its centre (Correct)**
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 (Correct)

B) Neutral

D) Horizontal

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

- A) $h/2$
C) $h/4$ (Correct)
- 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 (Correct)

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 (Correct)
- 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 (Correct)

B) Neutral

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

C) 3.25 cm

B) 2.54 cm (Correct)

D) 2.75 cm