

Student: Karthik**Score: 10/11 (90.91%)****Code: 2278****1.** Which affects the centre of gravity of the object?

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

base?

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

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

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

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

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

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

- A) **At its centre (Correct)**
 B) Any where on its radius
 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
 C) **Unstable (Correct)**
 D) Horizontal

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

- A) $h/2$
 B) $h/3$
 C) **$h/4$ (Correct)**
 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
 B) Shorter side of rectangle
 C) **At the point of intersection of its diagonals (Correct)**
 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**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