

Student: Harshad jadhav

Score: 7/11 (63.64%)

Code: 6144

1. Which affects the centre of gravity of the object

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

A) $4r/5$

B) **$3r/8$ (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**
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
C) Any where on its circumference (Incorrect)
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 shape's 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 (Incorrect)
B) Neutral
C) **Stable**
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
B) **2.54 cm (Correct)**
C) 3.25 cm
D) 2.75 cm