

**Student: Milan s**  
**Score: 3/10 (30.00%)**

**Code: 9435**

1. Which affects the centre of gravity of the object

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

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

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      D) Any where on its diameter (Incorrect)

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

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

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

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

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

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

- A) Stable      B) Neutral  
**C) Unstable**      D) Horizontal (Incorrect)

8. 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

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

- A) Un-stable      B) Neutral  
**C) Stable**      D) Bothe A and B (Incorrect)

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

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