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Score: 6/10 (60.00%)

Code: 9712

1. Which affects the centre of gravity of the object

- A) Weight
 B) **Mass (Correct)**
 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 (Incorrect)
 C) Any where on its circumference
 D) Any where on its diameter

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) $h/5$

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**
 D) At the corners (Incorrect)

6. 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

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

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

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 (Correct)**
 D) Bothe A and B

10. 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