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Score: 5/10 (50.00%)

Code: 2087

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. 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

4. What is the centre of gravity of a rectangular body?

- A) Longer side of rectangle (Incorrect) B) Shorter side of rectangle
C) **At the point of intersection of its diagonals** D) At the corners

5. What is the centre of gravity of a solid hemisphere from its base?

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

6. 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

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

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

8. 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

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 (Incorrect) B) **2.54 cm**
C) 3.25 cm D) 2.75 cm