

Student Name: _____	Roll No: _____
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1. What is the name of the point at which all the weight of the body concentrated?

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

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

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

3. Which affects the centre of gravity of the object?

- A) Weight                                  B) Mass  
C) Density                                  D) Shape

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

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

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

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

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

- A) At the diameter                      B) On the circumference

- C) At the centre                          D) At the radius

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

- A) Neutral                                  B) Horizontal  
C) Stable                                      D) Unstable

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

- A) 2.24 cm                                  B) 2.54 cm  
C) 3.25 cm                                  D) 2.75 cm

9. Which one of the following geometrical shapes centre of gravity lies from its base is  $1/3$  of its height?

- A) Rhombus                                  B) Triangle  
C) Square                                      D) Cone

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

- A) Any where on its diameter      B) Any where on its radius  
C) At its centre                              D) Any where on its circumference

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

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