

**Student: Manoja K M****Score: 11/11 (100.00%)****Code: 1426****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 (Correct)**    B) Any where on its radius  
 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 (Correct)**    D) At the corners

**6.** What is the centre of gravity of a solid hemisphere from its

base?

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

**7.** 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

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

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

**9.** 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

**10.** 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

**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