

# ITI Quiz - 13-Mar-2026

## 11:15 AM

Q. ID: ITISKILL9612YQ

March 2026

Government iti madikeri

Answer Key

Duration: 30 Mins

Total Marks: 10

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1. 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

**Answer: A) At its centre**

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

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

**Answer: C) At the point of intersection of its diagonals**

3. What is the name of the point at which all the weight of the body concentrated?

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

**Answer: B) Centre of gravity**

4. Which affects the centre of gravity of the object

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

**Answer: C) Mass**

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

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

**Answer: A) Stable**

6. Which one of the following geometrical shape's centre of gravity lies from its base is  $\frac{1}{3}$  of its height?

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

**Answer: D) Triangle**

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

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

**Answer: B) 2.54 cm**

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

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

**Answer: D) At the centre**

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

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

**Answer: D) Unstable**

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

- A)  $\frac{h}{3}$   
B)  $\frac{h}{5}$   
C)  $\frac{h}{2}$   
D)  $\frac{h}{4}$

**Answer: D)  $\frac{h}{4}$**