

ITI Quiz - 22-Jun-2026

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Q. ID: ITISKILL3051HO

June 2026

Answer Key

Duration: 60 Mins

Total Marks: 11

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

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

Answer: A) At the point of intersection of its diagonals

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

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

Answer: B) At the centre

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

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

Answer: A) Unstable

4. 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

Answer: D) Centre of gravity

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

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

Answer: D) Stable

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

- A) $3r/4$
B) $3r/8$

C) $4r/5$

D) $r/2$

Answer: B) $3r/8$

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

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

Answer: A) 2.54 cm

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

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

Answer: C) At its centre

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

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

Answer: B) Mass

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

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

Answer: A) Triangle

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

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

Answer: C) $h/4$