

ITI Quiz - 02-Feb-2026

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Q. ID: ITISKILL7913WY

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Answer Key

Duration: 40 Mins

Total Marks: 11

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

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

Answer: B) At the centre

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

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

Answer: A) Centre of gravity

3. Which affects the centre of gravity of the object

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

Answer: A) Mass

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

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

Answer: D) $3r/8$

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

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

Answer: B) $h/4$

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

- A) Neutral B) Both A and B

- C) Un-stable D) Stable

Answer: D) Stable

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

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

Answer: B) At its centre

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

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

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

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

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

Answer: D) Unstable

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

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

Answer: A) 2.54 cm

11. Which one of the following geometrical shape's centre of gravity lies from its base is $1/3$ of its height?

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

Answer: A) Triangle