

ITI Quiz - 02-Feb-2026

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Q. ID: ITISKILL7913WY

February 2026

Dr. J. J. Magdum ITI college
sambhajipur

Answer Key

Duration: 40 Mins

Total Marks: 11

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1. 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

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

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

Answer: B) At its centre

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

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

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

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

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

Answer: C) Unstable

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

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

Answer: A) $3r/8$

6. 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) Square
D) Rhombus

Answer: A) Triangle

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

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

Answer: C) Centre of gravity

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

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

Answer: D) 2.54 cm

9. Which affects the centre of gravity of the object

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

Answer: B) Mass

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

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

Answer: B) $h/4$

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

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

Answer: A) At the centre