

ITI Quiz - 05-Mar-2026

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Q. ID: ITISKILL3922KO

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 22

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

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

Answer: A) Mass

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

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

Answer: B) Stable

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

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

Answer: A) $h/4$

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

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

Answer: B) Stable

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

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

Answer: A) Unstable

6. 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

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

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

Answer: A) $3r/8$

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

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

Answer: A) At the centre

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

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

Answer: D) Centre of gravity

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

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

Answer: C) Unstable

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

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

Answer: D) 2.54 cm

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

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

Answer: B) $3r/8$

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

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

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

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

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

Answer: D) Centre of gravity

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

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

Answer: C) At its centre

16. Which one of the following geometrical shapes centre of gravity lies from its base is $\frac{1}{3}$ of its height?

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

Answer: C) Triangle

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

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

Answer: B) Triangle

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

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

Answer: B) 2.54 cm

19. 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

20. Which affects the centre of gravity of the object

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

Answer: D) Mass

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

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

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

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

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

Answer: B) $\frac{h}{4}$