

ITI Quiz - 05-Mar-2026

09:40 PM

Q. ID: ITISKILL3922KO

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 22

ID: ITISKILL3922KO

Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

5. Which affects the centre of gravity of the object

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

6. 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

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

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

8. 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

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

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

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

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

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

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

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

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

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

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

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

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

15. 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

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

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

17. 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

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

A) Cone

B) Square

C) Rhombus

D) Triangle

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

A) Unstable

B) Horizontal

C) Stable

D) Neutral

20. 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) Square

C) Cone

D) Triangle

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

A) At the diameter

B) On the circumference

C) At the radius

D) At the centre

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

A) At the corners

B) At the point of intersection of its diagonals

C) Longer side of rectangle

D) Shorter side of rectangle