

Monthly test for the month of november 2025

Q. ID: ITISKILL8763P1

June 2026

Government ITI KUKANOOR

Answer Key

Duration: 30 Mins

Total Marks: 20

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

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

Answer: B) $3r/8$

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

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

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

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

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

Answer: C) At the centre

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

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

Answer: A) At its centre

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

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

Answer: C) Centre of gravity

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

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

Answer: D) Stable

7. Which affects the centre of gravity of the object

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

Answer: D) Mass

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

- A) At its centre B) Any where on its radius

- C) Any where on its diameter D) Any where on its circumference

Answer: A) At its centre

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

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

Answer: D) Mass

10. 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) $h/4$

11. 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

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

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

Answer: B) 2.54 cm

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

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

Answer: C) At the centre

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

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

Answer: D) Unstable

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

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

Answer: A) Stable

16. 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) $h/4$

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

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

Answer: A) Centre of gravity

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

A) Unstable

B) Horizontal

C) Stable

D) Neutral

Answer: A) Unstable

19. 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) $3r/8$

20. 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