

ITI Quiz W/C- 07- Feb-2026 01:26 PM

Q. ID: ITISKILL5486EY

February 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 155 Mins

Total Marks: 25

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

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

Answer: D) Triangle

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

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

Answer: B) 2.54 cm

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

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

Answer: A) At the centre

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

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

Answer: A) Stable

5. What is the interest earned, if the principal is for Rs.12500/- maturity becomes to a amount of Rs.17500/-?

- A) Rs.5500
B) Rs.25000
C) Rs.30000
D) Rs.5000

Answer: D) Rs.5000

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

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

Answer: A) Stable

7. 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

8. 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

C) At its centre

D) Any where on its diameter

Answer: C) At its centre

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

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

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

10. 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

11. What is the compounded annual interest, for a loan amount of Rs.80000/- at 10% per annum for a period of 2 years?

- A) Rs.96800/
B) Rs.92400/-
C) Rs.16800/-
D) Rs.94800/-

Answer: C) Rs.16800/-

12. Which affects the centre of gravity of the object

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

Answer: A) Mass

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

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

Answer: C) Centre of gravity

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

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

Answer: A) At the centre

15. What is the compounded amount, if the principal of Rs.30000/- and interest earned at 7% per annum is Rs.4347?

- A) Rs.30347/-
B) Rs.32347/-
C) Rs.34347/-
D) Rs.33347/-

Answer: C) Rs.34347/-

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

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

Answer: B) At its centre

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

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

Answer: D) 2.54 cm

18. What is the profit % if the cost price of 16 bolts is equal to the selling price of 12 bolts?

- A) 33.33 B) 23.33
C) 13.33 D) 43.33

Answer: A) 33.33

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

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

Answer: B) $3r/8$

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

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

Answer: A) Unstable

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

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

Answer: B) Mass

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

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

Answer: B) $3r/8$

23. What is the cost price if the product is sold at Rs. 572 with a profit of Rs. 72?

- A) Rs. 1000 B) Rs. 500
C) Rs. 472 D) Rs. 644

Answer: B) Rs. 500

24. 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) $h/4$

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

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

Answer: B) Unstable