

# ITI Quiz W/C - 07- Feb-2026 01:30 PM

Q. ID: ITISKILL6125VN

February 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 155 Mins

Total Marks: 25

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1. 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)  $3r/8$

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

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

Answer: B) Centre of gravity

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

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

Answer: A) At its centre

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

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

Answer: B) Mass

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

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

Answer: A) Centre of gravity

6. 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

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

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

Answer: B) At the centre

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

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

Answer: B) Stable

9. Which affects the centre of gravity of the object

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

Answer: C) Mass

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

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

Answer: D) Stable

11. What is the difference between the simple and the compound interest amount at 5% per annum for 2 years on a principal of Rs.20000/-?

- A) Rs.50                      B) Rs.5  
C) Rs.25                      D) Rs.55

Answer: A) Rs.50

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

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

Answer: B) Unstable

13. What is the simple interest for the principal amount of Rs.100000 at 10% per annum for 1 year period?

- A) Rs.1000/-                      B) Rs.50000/-  
C) Rs.10000/-                      D) Rs.5000/-

Answer: C) Rs.10000/-

14. 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

15. 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)  $3r/8$

16. 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**

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

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

**Answer: A) Unstable**

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

**Answer: D) Triangle**

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

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

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

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

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

**Answer: C) 2.54 cm**

21. What is the profit amount, if the i - phone cost price is Rs.50000/- and selling price is Rs.70000/-?

- A) Rs. 20000/-  
B) Rs. 10000/-  
C) Rs. 2000/-  
D) Rs. 50000/-

**Answer: A) Rs. 20000/-**

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

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

**Answer: B) At the centre**

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

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

**Answer: D) At its centre**

24. Which is the short form of profit and loss statement?

- A) PR & LS  
B) PRO & LOS  
C) P & L  
D) L & P

**Answer: C) P & L**

25. What is the term, if an article is purchased?

- A) Cost price  
B) Margin price  
C) Discount price  
D) Selling price

**Answer: A) Cost price**