

ITI Quiz W/C - 02- Mar-2026-1 AM

Q. ID: ITISKILL4154VS

March 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 160 Mins

Total Marks: 50

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1. 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

2. What is the formula to find Loss %?

- A) $(Loss + 100)/(S.P)$
B) $(Loss \times 100)/(C.P)$
C) $(S.P)/(Loss + 100)$
D) $(C.P)/(Loss \times 100)$

Answer: B) $(Loss \times 100)/(C.P)$

3. What is the compound interest on a principal of Rs.25000/- after 3 years at the rate of 12% per annum?

- A) Rs.10483.20
B) Rs.9720
C) Rs. 9000
D) Rs.10123.20

Answer: D) Rs.10123.20

4. What is the value of 625^0 ?

- A) 25
B) 525
C) 0
D) 1

Answer: D) 1

5. What is the formula to find Profit %?

- A) $((Profit)/(S.P)) \times 100$
B) $((C.P)/(Profit)) \times 100$
C) $((S.P - C.P)/(Profit)) \times 100$
D) $((Profit)/(C.P)) \times 100$

Answer: D) $((Profit)/(C.P)) \times 100$

6. What is the value of $12x^3y^2 / 4x^2y$?

- A) $8xy$
B) $(-3xy)$
C) $3xy$
D) $16xy$

Answer: C) $3xy$

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

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

Answer: D) Rs. 500

8. Which is equal to $(a+b)^2 - (a-b)^2$?

- A) $5ab$
B) $2ab$
C) $4ab$
D) $3ab$

Answer: C) $4ab$

9. 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.30000
C) Rs.25000
D) Rs.5000

Answer: D) Rs.5000

10. What is denoted as 'I'?

- A) Principal
B) Interest
C) Rate
D) Year

Answer: B) Interest

11. How the profit / gain is expressed?

- A) \$
B) *
C) %
D) Rs.

Answer: C) %

12. What is the formula to find selling price (S.P) if there is a loss?

- A) $((100)/(100 + Profit \%)) \times S.P$
B) $((100)/(100 - Loss \%)) \times S.P$
C) $((100 + Profit \%)/(100)) \times C.P$
D) $((100 - Loss \%)/(100)) \times C.P$

Answer: D) $((100 - Loss \%)/(100)) \times C.P$

13. Which is the formula for a^m / a^n ?

- A) a^{m-n}
B) $a^{m \times n}$
C) a^{m+n}
D) $(a^m)^n$

Answer: A) a^{m-n}

14. 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) $3r/8$

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

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

Answer: B) Rs.34347/-

16. What is the value of $14x + 3y + 25x + 2y$?

A) $17x + 27y$

B) $44xy$

C) $16x + 28y$

D) $39x + 5y$

Answer: D) $39x + 5y$

17. What is the formula for $a^m \times a^n$?

A) a^{m-n}

B) a^{m+n}

C) $n \cdot a^m$

D) a^{mn}

Answer: B) a^{m+n}

18. How the 'Principal' is denoted in simple interest calculation?

A) 'I'

B) 'n'

C) 'P'

D) 'R'

Answer: C) 'P'

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

A) Cone

B) Square

C) Triangle

D) Rhombus

Answer: C) Triangle

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

A) Any where on its radius

B) Any where on its circumference

C) Any where on its diameter

D) At its centre

Answer: D) At its centre

21. What is a profit?

A) Cost price - Selling price

B) Selling price + Cost price

C) Cost price + Selling price

D) Selling price - Cost price

Answer: D) Selling price - Cost price

22. What is discount?

A) Selling price is less than Cost price

B) Selling price + discount

C) The reduction given to the selling price of a product

D) Selling price is greater than Cost price

Answer: C) The reduction given to the selling price of a product

23. What are the three consecutive numbers if there sum is 42?

A) 13,14,15

B) 11,12,13

C) 12,13,14

D) 14,15,16

Answer: A) 13,14,15

24. What is the principal amount deposited, if the maturity proceeds to an amount of Rs.25000/- and interest earned Rs.6000/-?

A) Rs.19000/-

B) Rs.31000/-

C) Rs.25000/-

D) Rs.20000/-

Answer: A) Rs.19000/-

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

A) $\frac{h}{4}$ B) $\frac{h}{3}$ C) $\frac{h}{2}$ D) $\frac{h}{5}$ **Answer: A) $\frac{h}{4}$**

26. What is the value of adding $(5x+2y)$, $(4x - 7z)$ and $(15z - 3y)$?

A) $9x + y - 8z$ B) $x + 9y + 8z$ C) $9x - y + 8z$ D) $x - 9y + 8z$ **Answer: C) $9x - y + 8z$**

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

A) 2.24 cm

B) 2.54 cm

C) 2.75 cm

D) 3.25 cm

Answer: B) 2.54 cm

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

A) 33.33

B) 13.33

C) 23.33

D) 43.33

Answer: A) 33.33

29. What is the selling price, if the profit is 5% for a computer table bought at Rs.1150/- with Rs.50/- as a transport charge?

A) 1260

B) 1160

C) 1060

D) 1620

Answer: A) 1260

30. What is the value of $(6^3) / ((-3)^3)$?

A) 27

B) (-27)

C) 8

D) (-8)

Answer: D) (-8)

31. 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.92400/-

B) Rs.16800/-

C) Rs.94800/-

D) Rs.96800/-

Answer: B) Rs.16800/-

32. What is the value of 'X' if $x - y = 6$ and $x + y = 8$?

A) 7

B) 5

C) 6

D) 14

Answer: A) 7

33. What is the expanded form of S.P?

- A) Selling Price B) Selected Price
C) Special Price D) Super Price

Answer: A) Selling Price

34. What is the maturity amount if Rs.20000 is deposited at 5% compound interest per annum for 2 years?

- A) Rs.22000 B) Rs.22500
C) Rs.22050 D) Rs.25000

Answer: C) Rs.22050

35. What is the selling price if the cost price is Rs.7282/- with a profit of Rs.208?

- A) Rs.7074 B) Rs.7490
C) Rs.7290 D) Rs.7698

Answer: B) Rs.7490

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

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

Answer: D) Stable

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

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

Answer: B) Unstable

38. Which affects the centre of gravity of the object

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

Answer: A) Mass

39. What is the simplified value of $(3x + 15) / 5x + 25$

- A) $(-3/5)$ B) $(-5/3)$
C) $(5/3)$ D) $(3/5)$

Answer: D) $(3/5)$

40. What is the multiplication value of $5a^2 \times b \times 8a^5 \times b^3$?

- A) $40a^7 \times b^4$ B) $40a^2 \times b^3$
C) $40a^3 \times b^2$ D) $40a^4 \times b^7$

Answer: A) $40a^7 \times b^4$

41. What is the value of $a \times a^2 \times a^3 \times a^4$?

- A) a^9 B) a^{10}
C) a^7 D) a^8

Answer: B) a^{10}

42. 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/-

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

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

Answer: A) P & L

44. What is the expansion of $(a+b+c)^2$?

- A) $a^2 + b^2 + c^2 + 2ab - 2bc + 2ca$ B) $a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$
C) $a^2 - b^2 - c^2 + 2ab + 2bc + 2ca$ D) $a^2 + b^2 + c^2 + 2(ab + bc + ca)$

Answer: D) $a^2 + b^2 + c^2 + 2(ab + bc + ca)$

45. What is the matured amount for the deposit of Rs.5000/- and the simple interest earned for Rs.500/-?

- A) Rs.6500 B) Rs.4500
C) Rs.5500 D) Rs.6000

Answer: C) Rs.5500

46. 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

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

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

Answer: B) Cost price

48. What is the value of x, if $3(2x - 4) = -4x + 28$?

- A) 8 B) 4
C) 6 D) 12

Answer: B) 4

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

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

Answer: C) Rs.10000/-

50. 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
