

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

Q. ID: ITISKILL4154VS

March 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 160 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

1. Which affects the centre of gravity of the object

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

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

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

3. What is a profit?

- A) Cost price + Selling price
B) Cost price - Selling price
C) Selling price - Cost price
D) Selling price + Cost price

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

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

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

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

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

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

7. 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) $a^2 + b^2 + c^2 + 2(ab + bc + ca)$

8. What is the formula to find Profit %?

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

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

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

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

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

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

- A) Rs.20000/-
B) Rs.31000/-
C) Rs.19000/-
D) Rs.25000/-

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

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

13. Which is the formula for $\frac{a^m}{a^n}$?

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

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

- A) 'n'
B) 'I'
C) 'P'
D) 'R'

15. 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.55
C) Rs.25
D) Rs.5

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

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

17. What is the formula to find Loss %?

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

18. 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) 1620 B) 1060
C) 1260 D) 1160

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

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

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

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

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

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

22. How the profit / gain is expressed?

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

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

- A) 13,14,15 B) 11,12,13
C) 14,15,16 D) 12,13,14

24. 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

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

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

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

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

27. Which one of the following geometrical shape's centre of gravity lies from its base is $1/3$ of its height?

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

28. 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

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

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

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

- A) a^{m-n} B) $n.a^m$
C) a^{m+n} D) a^{mn}

31. 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. 50000/-
C) Rs. 2000/- D) Rs. 10000/-

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

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

33. What is the value of 625^0 ?

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

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

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

35. What is discount?

- A) Selling price is greater than Cost price B) Selling price + discount
C) Selling price is less than Cost price D) The reduction given to the selling price of a product

36. 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

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

- A) (-8) B) 27
C) (-27) D) 8

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

- A) $44xy$ B) $16x + 28y$
C) $17x + 27y$ D) $39x + 5y$

39. What is denoted as 'I'?

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

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

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

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

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

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

- A) $\frac{(100)}{(100-\text{Loss } \%)} \times \text{S.P}$ B) $\frac{(100)}{(100+\text{Profit } \%)} \times \text{S.P}$
C) $\frac{(100-\text{Loss } \%)}{(100)} \times \text{C.P}$ D) $\frac{(100+\text{Profit } \%)}{(100)} \times \text{C.P}$

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

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

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

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

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

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

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

- A) 5 B) 6
C) 7 D) 14

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

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

48. 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.16800/- B) Rs.94800/-
C) Rs.92400/- D) Rs.96800/-

49. 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. 644 D) Rs. 472

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

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