

Trinity, College udhyavara udupi

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

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98.00% 49 / 50

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Attempt No.	#1	Completion Time	02:27 PM
Rank	#1	Total Questions	50

49 SCORE

50 MAX MARKS

49 CORRECT

1 INCORRECT

Answer Review

Q1 **CORRECT** What is the value of $14x + 3y + 25x + 2y$?

A. $17x + 27y$

B. $16x + 28y$

C. $39x + 5y$ ☒

D. $44xy$

Q2 **CORRECT** What is the multiplication value of $5a^2 \times 8a^5 b^3$?

A. $40a^7 b^4$ ☒

B. $40a^3 b^2$

C. $40a^4 b^7$

D. $40a^2 b^3$

Q3 **CORRECT** What is the simplified value of $(3x + 15) / 5x + 25$

A. $(5/3)$

B. $(3/5)$ ☒

C. $(-5/3)$

D. $(-3/5)$

Q4 **CORRECT** What is the formula for $a^m \times a^n$?

A. a^{m+n} ☒

B. a^{m-n}

C. a^{mn}

D. $n \cdot a^m$

Q5 **CORRECT** Which is the formula for a^m / a^n

A. a^{m+n}

B. a^{m-n} ☒

C. a^{mxn}

D. $(a^m)^n$

Q6 **CORRECT** Which is equal to $(a+b)^2 - (a-b)^2$

A. $2ab$

B. $3ab$

C. $4ab$ ☒

D. $5ab$

Q7 **CORRECT** What is the value of $a^2 \times a^3 \times a^4$?

A. a^7

B. a^8

C. a^9

D. a^{10} ☒

Q8 **CORRECT** What is the value of 625^0 ?

B. 1 ☒

C. 525

D. 25

Q9 **CORRECT** What is the value of adding $(5x+2y)$, $(4x - 7z)$ and $(15z - 3y)$?

A. $9x - y + 8z$ ☒

B. $x - 9y + 8z$

C. $x + 9y + 8z$

D. $9x + y - 8z$

Q10 **CORRECT** What is the value of $12x^3y^2 \div 4x^2y$?

A. $8xy$

B. $16xy$

C. $3xy$ ☒

D. $(-3xy)$

Q11 **CORRECT** What is the value of x , if $3(2x - 4) = -4x + 28$?

A. 4 ☐

B. 8

C. 6

D. 12

Q12 **CORRECT** What is the expansion of $(a+b+c)^2$?

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

B. $a^2 + b^2 + c^2 - 2ab + 2bc + 2ca$

C. $a^2 + b^2 + c^2 + 2ab - 2bc + 2ca$

D. $a^2 - b^2 - c^2 + 2ab + 2bc + 2ca$

Q13 **CORRECT** What is the value of $(6^3) / ((-3)^3)$?

A. 8

B. (-8) ☐

C. 27

D. (-27)

Q14 **CORRECT** What is the value of 'X' if $x - y = 6$ and $x + y = 8$?

A. 5

B. 6

C. 7 ☐

D. 14

Q15 **CORRECT** What are the three consecutive numbers if there sum is 42?

A. 11,12,13

B. 12,13,14

C. 13,14,15 ☒

D. 14,15,16

Q16 **INCORRECT** Which affects the centre of gravity of the object

A. Weight

B. Mass ☒

C. Density

D. Shape ☐

Q17 **CORRECT** What is the name of the point at which all the weight of the body concentrated?

A. Initial point

B. Centre of gravity ☒

C. Centroid

D. Central point

Q18 **CORRECT** 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

Q19 **CORRECT** What is the centre of gravity of a right circular cone from its base?

A. $h/2$

B. $h/3$

C. $h/4$ ☒

D. $h/5$

Q20 **CORRECT** What is the centre of gravity of a rectangular body?

A. Longer side of rectangle

B. Shorter side of rectangle

C. At the point of intersection of its diagonals ☒

D. At the corners

Q21 **CORRECT** What is the centre of gravity of a solid hemisphere from its base?

A. $4r/5$

B. $3r/8$ ☒

C. $3r/4$

D. $r/2$

Q22 **CORRECT** Which state of equilibrium's example is A cone resting on its tip?

A. Stable

B. Neutral

C. Unstable ☒

D. Horizontal

Q23 **CORRECT** Which one of the following geometrical shape's centre of gravity lies from its base is $\frac{1}{3}$ of its height?

A. Square

B. Rhombus

C. Triangle ☒

D. Cone

Q24 **CORRECT** Which state of equilibrium's example is, A cone resting on its base?

A. Un-stable

B. Neutral

C. Stable ☒

D. Bothe A and B

Q25 **CORRECT** What is the centre of gravity of a semi circle of diameter 12 cm?

A. 2.24 cm

B. 2.54 cm ☒

C. 3.25 cm

D. 2.75 cm

Q26 **CORRECT** What is discount?

A. Selling price is less than Cost price

B. Selling price is greater than Cost price

C. The reduction given to the selling price of a product ☒

D. Selling price + discount

Q27 **CORRECT** What is a profit?

A. Selling price - Cost price ☒

B. Cost price - Selling price

C. Selling price + Cost price

D. Cost price + Selling price

Q28 **CORRECT** What is the term, if an article is purchased?

A. Selling price

B. Cost price ☒

C. Margin price

D. Discount price

Q29 **CORRECT** What is the expanded form of S.P?

A. Selected Price

B. Special Price

C. Selling Price ☒

D. Super Price

Q30 **CORRECT** Which is the short form of profit and loss statement?

A. P & L ☒

B. PR & LS

C. PRO & LOS

D. L & P

Q31 **CORRECT** What is denoted as 'I'?

A. Principal

B. Interest ☒

C. Rate

D. Year

Q32 **CORRECT** How the 'Principal' is denoted in simple interest calculation?

A. 'P' ☒

B. 'I'

C. 'R'

D. 'n'

Q33 **CORRECT** How the profit / gain is expressed?

A. Rs.

B. \$

C. % ☒

D. *

Q34 **CORRECT** What is the formula to find Loss %?

A. $(\text{Loss} \times 100) / (\text{C.P.})$ ☒

B. $(\text{C.P.}) / (\text{Loss} \times 100)$

C. $(\text{Loss} + 100) / (\text{S.P.})$

D. $(\text{S.P.}) / (\text{Loss} + 100)$

Q35 **CORRECT** What is the formula to find selling price (S.P) if there is a loss?

A. $((100)/(100+\text{Profit \%})) \times \text{S.P}$

B. $((100+\text{Profit \%})/(100)) \times \text{C.P}$

C. $((100)/(100-\text{Loss \%})) \times \text{S.P}$

D. $((100-\text{Loss \%})/(100)) \times \text{C.P}$ ☒

Q36 **CORRECT** What is the formula to find Profit %?

A. $((\text{C.P})/(\text{Profit})) \times 100$

B. $((\text{Profit})/(\text{S.P})) \times 100$

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

D. $((\text{Profit})/(\text{C.P})) \times 100$ ☒

Q37 **CORRECT** What is the profit amount, if the i - phone cost price is Rs.50000/- and selling price is Rs.70000/-?

A. Rs. 2000/-

B. Rs. 10000/-

C. Rs. 20000/- ☒

D. Rs. 50000/-

Q38 **CORRECT** 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. 1160

B. 1620

C. 1060

D. 1260 ☒

Q39 **CORRECT** What is the cost price if the product is sold at Rs. 572 with a profit of Rs. 72?

A. Rs. 500 ☐

B. Rs. 1000

C. Rs. 644

D. Rs. 472

Q40 **CORRECT** 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

Q41 **CORRECT** What is the selling price if the cost price is Rs.7282/- with a profit of Rs.208?

A. Rs.7074

B. Rs.7698

C. Rs.7290

D. Rs.7490 ☐

Q42 **CORRECT** What is the principal amount deposited, if the maturity proceeds to an amount of Rs.25000/- and interest earned Rs.6000/-?

A. Rs.31000/-

B. Rs.19000/- ☐

C. Rs.20000/-

D. Rs.25000/-

Q43 **CORRECT** What is the interest earned, if the principal is for Rs.12500/- maturity becomes to a amount of Rs.17500/-?

A. Rs.30000

B. Rs.25000

C. Rs.5000 ☒

D. Rs.5500

Q44 **CORRECT** What is the matured amount for the deposit of Rs.5000/- and the simple interest earned for Rs.500/-?

A. Rs.4500

B. Rs.5500 ☒

C. Rs.6000

D. Rs.6500

Q45 **CORRECT** 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.5000/-

C. Rs.50000/-

D. Rs.10000/- ☒

Q46 **CORRECT** 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.92400/-

C. Rs.96800/-

D. Rs.94800/-

Q47 **CORRECT** 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.33347/-

D. Rs.34347/- ☒

Q48 **CORRECT** 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.5

B. Rs.25

C. Rs.50 ☒

D. Rs.55

Q49 **CORRECT** What is the maturity amount if Rs.20000 is deposited at 5% compound interest per annum for 2 years?

A. Rs.22000

B. Rs.22050 ☒

C. Rs.22500

D. Rs.25000

Q50 **CORRECT** What is the compound interest on a principal of Rs.25000/- after 3 years at the rate of 12% per annum?

A. Rs. 9000

B. Rs.9720

C. Rs.10123.20 ☒

D. Rs.10483.20