

# Trinity, College udhyavara udupi

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

Q. ID: ITISKILL4154VS | March 2026

96.00% 48 / 50

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|--------------|-------|-----------------|----------|
| Student Name | Varun | Access Code     | 7478     |
| Attempt No.  | #1    | Completion Time | 02:29 PM |
| Rank         | #2    | Total Questions | 50       |

48 SCORE

50 MAX MARKS

48 CORRECT

2 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 **INCORRECT** 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