



### Exercise 10C

Q7.

**Answer :**

Let the original cost of the spare parts be Rs  $x$ .

$$\text{VAT} = 12\% \text{ of Rs. } x = \text{Rs.} \left( x \times \frac{12}{100} \right) = \text{Rs.} \frac{12x}{100}$$

$$\therefore \text{Price including VAT} = \text{Rs.} \left( x + \frac{12x}{100} \right) \\ = \text{Rs.} \frac{112x}{100}$$

$$\text{Now, } \frac{112x}{100} = 20776 \Rightarrow x = \left( 20776 \times \frac{100}{112} \right) = 18550$$

Hence, the original cost of the spare parts is Rs 18,550.

Q8.

**Answer :**

Let the list price of the TV set be Rs  $x$ .

**VAT = 8% of Rs.  $x$**

$$= \text{Rs.} \left( x \times \frac{8}{100} \right)$$

$$= \text{Rs.} \frac{8x}{100}$$

$$\therefore \text{Price including VAT} = \text{Rs.} \left( x + \frac{8x}{100} \right) \\ = \text{Rs.} \frac{108x}{100}$$

$$\text{Now, } \frac{108x}{100} = 27000$$

$$\Rightarrow x = \left( 27000 \times \frac{100}{108} \right) \\ = 25000$$

Hence, the list price of the TV set is Rs 25,000.

Q9.

**Answer :**

Let the rate of VAT be  $x\%$ . Then, we have:

$$840 + x\% \text{ of } 840 = 882$$

$$\Rightarrow \left( \frac{x}{100} \times 840 \right) = 882 - 840$$

$$\Rightarrow \frac{84x}{10} = 42$$

$$\Rightarrow x = \left(42 \times \frac{10}{84}\right)$$

$$= 5$$

∴ The rate of VAT is 5%.

Q10.

**Answer :**

Let the rate of VAT be  $x\%$ . Then, we have:

$$18500 + x\% \text{ of } 18500 = 19980$$

$$\Rightarrow \left(\frac{x}{100} \times 18500\right) = 19980 - 18500$$

$$\Rightarrow 185x = 1480$$

$$\Rightarrow x = \frac{1480}{185}$$

$$= 8$$

∴ The rate of VAT is 8%.

Q11.

**Answer :**

Let the rate of VAT be  $x\%$ . Then, we have:

$$34000 + x\% \text{ of } 34000 = 382500$$

$$\Rightarrow \left(\frac{x}{100} \times 340000\right) = 382500 - 340000$$

$$\Rightarrow 3400x = 42500$$

$$\Rightarrow x = \frac{42500}{3400}$$

$$= 12.5$$

∴ The rate of VAT is 12.5%.

\*\*\*\*\* END \*\*\*\*\*