Q7.

Answer :

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

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

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

                   = Rs.$\frac{112x}{100}$

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.

$$\mathbf{VAT = 8\% \text{ of Rs. } x}$$

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

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

∴ Price including VAT $= \mathbf{Rs.} \left(x + \frac{8x}{100}\right)$

$$= \mathbf{Rs.} \frac{108x}{100}$$

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%.