

Ans. 1 Total sales = Credit sales + Cash sales

Let the total sales be  $x$

Cash sales = 25% of  $x \rightarrow \frac{x}{4}$

Credit sales = Rs 600 000

Now  $x = \frac{x}{4} + 600\,000$

$4x = x + 24\,00\,000$

$3x = 24\,00\,000$

$x = \text{Rs } 800\,000$  (Total sales)

Cash sales =  $800\,000 \times \frac{25}{100} = 200\,000$

COGS = op. stock + purchases - cl. stock  
= (op stock - closing stock) + purchases  
= -50 000 + 690 000  
= Rs 640 000

Gross profit = Total sales - COGS  
= 800 000 - 640 000  
= Rs. 160 000

Gross profit Ratio =  $\frac{GP}{\text{Net sales}} \times 100$   
=  $\frac{160\,000}{800\,000} \times 100 = 20\%$

Ans 2 To calculate operating ratio,  
we need

$$\begin{aligned} * \text{ Cost of Goods sold} &= \text{Sales} - \text{Gross profit} \\ &= 400\,000 - 184\,000 \\ &= \text{Rs. } 216\,000 \end{aligned}$$

$$\begin{aligned} * \text{ operating expenses} &= \text{Administration Exp} \\ &+ \text{selling \& Distribution expenses} \\ &= 10\,000 + 14\,000 \\ &= \text{Rs. } 24\,000 \end{aligned}$$

$$\begin{aligned} * \text{ Net Sales} &= \text{Sales} - \text{Sales Return} \\ &= 400\,000 - 0 \\ &= \text{Rs } 400\,000 \end{aligned}$$

$$\text{operating Ratio} = \frac{\text{COGS} + \text{operating Exp.}}{\text{Net sales}} \times 100$$

$$= \frac{216\,000 + 24\,000}{400\,000} \times 100$$

$$= \frac{240\,000}{400\,000} \times 100$$

$$= 60\%$$

$$\begin{aligned} \text{operating Profit Ratio} &= 100 - 60 \\ &= 40\% \end{aligned}$$

operating ratio and operating profit ratios of complementary to each other and the sum of the two totals to be 100.

<u>Ans. 3</u>	Profit (given)	500 000
	Add: Interest (loan)	100 000
	10% of 10 00 000	<u>600 000</u>

Capital employed can be calculated by both the formulas in this particular question.

① Asset side Approach

$$\begin{aligned}
 \text{Capital employed} &= \text{Fixed Assets} + \text{Working Capital} \\
 &= \text{Fixed Assets} + (\text{Current Assets} - \text{Current Liab}) \\
 &= 29\,00\,000 + (25\,00\,000 - 15\,00\,000) \\
 &= 29\,00\,000 + 10\,00\,000 \\
 &= \text{Rs. } 39\,00\,000
 \end{aligned}$$

② Liability side Approach

$$\begin{aligned}
 \text{Capital employed} &= \text{Share Cap.} + \text{Reserves} + \text{long term loans} - \text{Fictitious Assets} \\
 &= 20\text{L} + (5\text{L} + 5\text{L}) + 10\text{L} - 1\text{L} \downarrow \\
 &= \text{Rs. } 39\,00\,000
 \end{aligned}$$

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