### **VIDYA BHAWAN BALIKA VIDYA PITH**

## शक्तिउत्थानआश्रमलखीसरायबिहार

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Accounting Ratios H.W

#### Question 11:

From the following information calculate:

(i) Gross Profit Ratio (ii) Inventory Turnover Ratio (iii) Current Ratio (iv) Liquid Ratio (v) Net Profit Ratio (vi) Working capital Ratio:

	I
	Rs
Revenue from	25,20,000
Operations	
Net Profit	3,60,000
Cast of Revenue	19,20,000
from	
Operations	
Long-term	9,00,000
Debts	
Trade Payables	2,00,000
Average	8,00,000
Inventory	
Current Assets	7,60,000
Fixed Assets	14,40,000
Current	6,00,000
Liabilities	
Net Profit	8,00,000
before Interest	
and Tax	

#### ANSWER:

Gross Profit Ratio = 
$$\frac{\text{Gross Profit}}{\text{Net Revenue from Operations}} \times 100$$

Gross Profit Ratio = 
$$\frac{6,00,000}{25,20,000} \times 100 = 23.81$$

(ii)

Inventory Turnover Ratio = 
$$\frac{\text{Cost of Revenue from Operations}}{\text{Average Inventory}}$$
$$= \frac{19,20,000}{8,00,000}$$
$$= 2.4 \text{ times}$$

Current Ratio = 
$$\frac{\text{Current Assets}}{\text{Current Liabilities}}$$

Current Ratio = 
$$\frac{15,60,000}{6,00,000} = \frac{2.6}{1} = 2.6:1$$

(iv)

Liquid Ratio = 
$$\frac{\text{Liquid Assets}}{\text{Current Liabilities}}$$
= 
$$\frac{7,60,000}{6,00,000}$$
= 
$$\frac{1.27}{1}$$
= 1.27:1

(v)

Net Profit Ratio = 
$$\frac{\text{Net Profit}}{\text{Net Revenue from Operations}} \times 100$$
$$= \frac{3,60,000}{25,20,000} \times 100$$
$$= 14.28\%$$

(vi)

Working Capital Ratio = 
$$\frac{\text{Revenue from Operations}}{\text{Working Capital}}$$

Working Capital= Current Assets – Current Liabilities  
= 
$$15,60,000 - 6,00,000$$
  
=  $9,60,000$ 

Working Capital Ratio = 
$$\frac{25,20,000}{9,60,000}$$
  
= 2.625 times

<u>Note</u>: There is a misprint in the question given in the textbook. The figure of Rs '760,000' represents the value of 'Liquid Assets' and not 'Current Assets'. The above solution has been worked out accordingly and the answer given as per the textbook is same as per the above solution.

#### Question 12:

Compute Gross Profit Ratio, Working Capital Turnover Ratio, Debt Equity Ratio and Proprietary Ratio from the following information:

	Rs
Paid-up Share Capital	5,00,000
Current Assets	4,00,000
Revenue from Operations	10,00,000
13% Debentures	2,00,000
Current Liabilities	2,80,000
Cost of Revenue from Operations	6,00,000

#### ANSWER:

Gross Profit Ratio = 
$$\frac{\text{Gross Profit}}{\text{Net Revenue from Operations}} \times 100$$

Gross Profit Ratio = 
$$\frac{4,00,000}{10,00,000} \times 100 = 40\%$$

Working Capital Ratio = 
$$\frac{\text{Revenue from Operations}}{\text{Working Capital}}$$

Working Capital Ratio = 
$$\frac{10,00,000}{1,20,000}$$
$$= 8.33 \text{ times.}$$

Debt Equity Ratio = 
$$\frac{\text{Debt}}{\text{Equity}}$$
$$= \frac{2,00,000}{5,00,000} = 2:5 = 0.4:1$$

$$Proprietary\ Ratio = \frac{Shareholders\ Funds}{Total\ Assets}$$

Proprietary Ratio = 
$$\frac{5,00,000}{9,80,000}$$
 = 25:49 = 0.51:1

#### Question 13:

Calculate Inventory Turnover Ratio if:

Inventory in the beginning is Rs. 76,250, Inventory at the end is 98,500, Gross Revenue from Operations is Rs. 5,20,000, Sales Return is Rs. 20,000, Purchases is Rs. 3,22,250.

#### ANSWER:

Average Inventory = 
$$\frac{\text{Inventory in the beginning + Inventory at the end}}{2}$$
= 
$$\frac{76,250+98,000}{2}$$
= 87.375

Inventory Turnover Ratio = 
$$\frac{3,00,000}{87,375}$$
 = 3.43 times

#### Question 14:

Calculate Inventory Turnover Ratio from the data given below:

	Rs
Inventory in the beginning of the	10,000
year	
Inventory at the end of the year	5,000
Carriage	2,500
Revenue from Operations	50,000
Purchases	25,000

#### **ANSWER:**

$$Inventory Turnover Ratio = \frac{Cost of Revenue from Operations}{Average Inventory}$$

Average Inventory = 
$$\frac{\text{Inventory in the beginning + Inventory at the end}}{2}$$

$$= \frac{10,000+5,000}{2}$$

$$= 7,500$$

Inventory Turnover Ratio = 
$$\frac{32,500}{7,500}$$
 = 4.33 times

#### Question 15:

A trading firm's average inventory is Rs 20,000 (cost). If the inventory turnover ratio is 8 times and the firm sells goods at a profit of 20% on sale, ascertain the profit of the firm.

#### ANSWER:

$$Inventory Turnover Ratio = \frac{Cost of Revenue from Operations}{Average Inventory}$$

or, 
$$8 = \frac{\text{Cost of Revenue from Operations}}{20,000}$$

or, Cost of Revenue from Operations = 20,000 × 8

or, Cost of Revenue from Operations = 1,60,000

Let Sale Price be Rs 100

Then Profit is Rs 20

Hence, the Cost of Revenue from Operations = Rs 100 - Rs 20 = Rs 80

If the Cost of Revenue from Operations is Rs 80, then Revenue from Operations = 100

If the Cost of Revenue from Operations is Rs 1, then Revenue from Operations =  $\frac{100}{80}$ 

If the Cost of Revenue from Operations is 1,60,000 then,

Revenue from Operations = 
$$\frac{100}{80} \times 1,60,000 = 2,00,000$$

Profit = Net Revenue from Operations - Cost of Revenue from Operations

= 2,00,000 - 1,60,000

=40,000