

SRI AKILANDESWARI WOMEN'S COLLEGE, WANDIWASH

MANAGEMENT ACCOUNTING

Class: III UG Commerce

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DEBTORS TURNOVER RATIO

Pankajam Ltd. sells goods on cash as well as on credit basis. The following information is extracted from their books of accounts for 1993:

	Rs.
Total sales	1,00,000
Cash sales (included in the above)	20,000
Sales returns	7,000
Total Debtors for sales as on(31.12.1993)	9,000
Bills receivables as on 31.12.1993	2,000
Provision for doubtful debts	1,000
Trade creditors as on 31-12-93	10,000
You are required to calculate	
(1) Debtors/ Receivables turnover ratio	
(2) The average collection period	

Solution:

Debtors turnover ratio

(1) Debtors/Receivables turnover ratio: Credit sales Average Accounts Receivables Credit sales = Total sales - cash sales-sales returns Credit sales = 1,00,000 - 20,000 - 7,000Rs 73,000 Average accounts receivables = Average debtors + Average Receivables Average Debtors = Opening debtors + Closing debtors 2 Opening bills receivables + Closing bills Average Receivables = receivables 2 Average Accounts Receivables = Closing debtors + closing bills receivables

= 9,000 + 2,000 = Rs. 11,000

= 73,000/11,000 = 6.636times

(2) Average collection period:

Days / Months in the year

Debtors turnover ratio

Average collection period = 365

6.636

= 55 days

(or)

= 12/6.636

= 1.8 months

Debtors Turnover Ratio

17. Calculate the debtors turnover ratio from the following:

	Rs.
Total sales for the year 1987	1,00,000
Cash sales for the year 1987	20,000
Debtors as on 1.1.1987	10,000
Debtors as on 31.12.1987	15,000
Bills receivables as on 1.1.1987	7,500
Bills receivables as on 31.12.1987	12,500

Solution: Debtors turnover ratio:

Credit sales

Average accounts Receivables

Credit sales = Total sales - Cash sales

Credit sales = 1,00,000 - 20,000 =Rs. 80,000

Average Accounts receivables = Average debtors + Average Receivables

Average debtors = Opening debtors + Closing debtors

2

10,000 + 15,000

= = Rs. 12500

Average Receivables =

Opening receivables + Closing receivables

2 7,500 + 12,500 _____ = Rs. 10,000

Debtors turnover ratio

80,000 ____ = 3.56 times 22,500

PROFITABILITY RATIO

The following information is extracted from the books of Confident Co. Ltd. You are required to rearrange the information for Financial Analysis and calculate(1) Return on investment(ROI) (2) Return on shareholders funds(3) Return on equity shareholders' funds (4) Return on total assets.

Particulars	Rs.	Particulars	Rs.
Net Sales	10,00,000	Profit & Loss Account	2,00,000
Cost of goods sold	6,00,000	Debentures	2,50,000
Interest on debentures	25000	Sundry creditors	50,000
Loss on sale of furniture	5000	Equity share capital	3,00,000
Interest on govt. securities	5,000	10% Pref. share capital	2,00,000
Fixed assets less depreciation	10,75,000	Operating expenses	1,50,000
Investment in govt. securities Current assets Reserves	50,000 5,00,000 4,00,000	Provision for tax	75,000

Profit and Loss Account

Particulars	Rs.	Particulars	Rs.
To Cost of goods sold	6,00,000	By Net sales	10,00,000
To Gross Profit c/d	4,00,000		
	10,00,000		10,00,000
To Operating expenses	1,50,000	By Gross Profit b/d	4,00,000
To Operating Profit c/d	2,50,000		
	4,00,000		4,00,000
To Interest on debentures To Loss on Sale of furniture	25,000 5,000	By Operating Profit b/d By Interest on govt.	2,50,000
To Provision for tax	75,000	securities	5,000
To Net Profit c/d	1,50,000		2 EE 000
	2,55,000		2,55,000

Statement of Funds (or) Position Statement

Dautianlana		Rs.	Rs.
Particulars			
Fixed Assets (A)			10,75,000
Current assets		5,00,000	
Less: Current liabilities: Creditors Provision for tax	50,000 75,000	1,25,000	
Working capital (B)			3,75,000
Capital employed (A+B) Add: Investment in govt. securities Less: Debentures Shareholders funds Less: Preference share capital			14,50,000 50,000 15,00,000 2,50,000 12,50,000 2,00,000
Equity shareholders funds			10,50,000

(1) Return on Investment

Profit before interest and tax

= ______ x100

Capital employed

2,50,000

= _____ x100 = 17.24%

14,50,000

(2) Return on shareholders' funds

Net profit after interest and tax
= _____ x100

Shareholders' funds

 $\begin{array}{r}
 1,50,000 \\
 = \underline{\qquad} x \ 100 = 12\% \\
 12,50,000
 \end{array}$

(3) Return o equity shareholders' funds

Net profit after interest, tax and preference dividend

Equity shareholders funds 1,50,000 - 20,000 $\underline{\qquad \qquad } x100$ 10,50,000 - 20,000

$$\frac{1,30,000}{10,30,00} \times 100 = 12.62\%$$

x100

(4) Return on total assets Net profit after tax + interest x100total assets 1,50,000 + 25,000x10010,75,000 + 5,00,00 + 50,0001,75,000 x10016,25,000

10,77%

Ascertain the Return on shareholders' funds from the following data:

Equity share capital Rs. 12,00,000 Preference share capital Rs. 3,00,000

Reserves Rs. 5,00,000

Profit after tax Rs. 10,00,000

Net profit after interest and tax

x100

shareholders funds 10,00,000

_____ x100

20,00,000

50%

STOCK TURNOVER RATIO

(a) From the following details of a trader you are required to calculate stock turnover ratio

	Rs.
Sales	39,984
Sales returns	380
Opening stock at cost	1378
Closing stock at cost	1814
Total Gross profit for the year	8068

(b) Calculate stock turnover ratio and stock turnover period from the following:

Sales Rs. 10,00,000; Gross profit ratio 20%;

Stock at the beginning of the year Rs.

1,75,000; Stock at the end of the year Rs.

1,45,000

Solution:

(a)	Stock turnover ratio:				
		Cost of sales			
		Average stock			
cost of sales		= Sales – Gross profit			
		= (39984-380)- 8068			
		= 39604-8068			
		= 31,536			
		Opening stock+ Closing stock			
Avera	age stock =				
		2			
		1378 + 1814			
	=				
		2			
	=	3192 / 2 = 1,596			
Stock turnover ratio =		31,536			
		= 19.76 times			
		1596			

(b) Stock turnover ratio:

(b) Stock turnover ra	tio.				
			Cost of sa	les	
		=			
			Average s	tock	
Cost of Sales	=	Sales – G	ross profit		
Gross profit		=	Sales x Gr	oss profit r	atio
	=	10,00,000	x20/100 =	2,00,000	
Cost of sales	=	10,00,000 -2,00,000			
	=	Rs.8,00,0	00		
			Opening	stock = Clo	sing stock
Average stock	=				
				2	
	=		1,75,000	+ 1,45,000	(
					_ = Rs. 1,60,000
				2	
Stock turnover ratio	=			8,00,000	1
					_ = 5 times
				1,60,000	
Stock turnover perior	d =		Days/ mo	nths in the	year
			stock turn	over ratio	
Stock turnover perio	d in days =		365/5 =73	3 days	
Stock turnover per		nths	=	•	.4 months

16. Calculate Stock Turnover ratio from the following trading Account:

	Trading acc	count
	Rs.	Rs.
Opening stock	40,000	Sales 2,00,000
Purchases	1,00,000	Closing Stock 20,000
Freight	10,000	
Gross profit	70,000	
	2,20,000	2,20,000
		

Solution:

Stock turnover ratio:

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Cost of sales
                                   Average stock
Cost of sales
                 = Sales – Gross profit
                          = 2,00,000 - 70,000 = Rs. 1,30,000
Average Stock
                 = Opening stock + Closing stock
                                   40,000 + 20,000
                                                        = Rs.30,000
Stock Turnover ratio
                                   1,30,000
                                               = 4.33 times
                                    30,000
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