## **Working Note:**

Ratio of cost of goods sold i.e., W: X: Y: Z = 40: 44: 56: 60 or 10:11:14: 15. Salary & Com. (Dept. W) =  $30,000 \times 10/50 = ₹6,000$ ; Rent & Rates =  $20,000 \times 10/50 = ₹4,000$ ;

Insurance =  $4,500 \times 10/50 = ₹900 \& so on.$ 

## Preparation of Statement for Calculation of Closing Stock and Profit

Illustration 2. The directors of Departmental Stores Ltd. wish to ascertain the net profits of the A, B and C departments separately for the four months ended 30th April, 2015. It is found impracticable actually to take stock on that date but an adequate system of departmental account is in use and the normal rates of gross profit for the departments concerned are 40%, 30% and 20% (before charging direct expenses) on turnover respectively. Indirect expesses are charged in proportion to departmental turnover.

The following are figures for each department:

Particulars Departments	A	В	С
Particulars	₹	₹ :	₹
	6,000	7,000	3,000
Stock (1-1-2015)	7,000	6,500	4,700
Purchases for the period	12,000	10,000	6,000
Sales for the period	2,020	1,450	710
Direct Expenses	1 2,000		

The total indirect expenses for the period (including those relating to other departments) were ₹4,200 on the total turnover of ₹84,000.

Prepare a statement of estimated profits for the directors, making a stock reserve of 10% for each department on the estimated value of stock on 30th April, 2015. [P. U. - 2005; Moderate]

#### Solution:

STATEMENT OF ESTIMATED PROFIT (for the Period ended 30th April, 2015)

Particulars		**************************************	Dept. A		Dept. B		Det. C		
Stock (1-1-2015) Purchases		· .	Transition	₹ 6,000 7,000	₹	₹ 7,000 6,500	₹	₹ 3,000 4,700	₹
Gross Profit c/d* (40%, 30% & 2 Less: Sales	0% on Depar	tmental Sales)		4,800 17,800	4,800	3,000 16,500	3,000	1,200 8,900 6,000	1,200
Estimated Stock (30-4-2015) Less:	0000			12,000 5,800		6,500	. 7,8	2,900	
Direct Expenses Indirect Expenses** Stock Reserve***	786 M	7,000	i ch »	2,020 600	2 200	1,450 500 650	2,600	710 300 290	1 200
Estimated Net Profit/Loss (Balancing Figure)	1,680	008 f 0003 000	Fig. 3. St. St. St. St. St. St. St. St. St. St	580	1,600	000	400	290	1,300 (-)100

## **Working Notes:**

\* Gross Profit of Department A, B & C; 40%, 30% & 20% respectively on sales:

 $A = 12,000 \times 40/100 = ₹4,800$ ,  $B = 10,000 \times 30/100 = ₹3,000 & C = 6,000 \times 20/100 = ₹1,200$ 

\*\* Ratio of Total Indirect Expenses & Total Turnover/Sales = ₹4,200 : ₹84,000 = 1 : 20 or 1/20Indirect Exp.of Dept.; A =  $12,000 \times 1/20 = ₹600$ ; B =  $10,000 \times 1/20 = ₹500$  & C =  $6,000 \times 1/20 = ₹300$ . \*\*\* Stock Reserve (10% on closing stock):

Dept. A =  $5,800 \times 10/100 = ₹580$ ; Dept. B =  $6,500 \times 10/100 = ₹650$  & Dept. C =  $2,900 \times 10/100 = ₹290$ .

# Distribution of Indirect Expenses & Preparation of Profit and Loss Account

Illustration 3. Aman, the proprietor of a departmental store, containing three departments named A, B and C; decided to calculate separate profit for his departments for the month of December 2014. Stock on 31st December could not be valued for the certain unavoidable reasons but his rates of gross profits on sales for the A, B and C departments are 40%, 30% and 20% respectively. The following information is given:

Particulars 1991 Octobries	713 37 1	Departments			
. •= •	<b>A</b>	В	C .		
	₹	₹	₹		
Stock on 1.12.2014 Salary	9,000	8,400	12,000		
Purchases	5,490	8,520	12,220		
"HALE 11 THE HELE 12 HELE HELE TO THE SECOND TO THE SE	27,000	21,600	90,000		
Sales 1990	42,000	36,000	1,02,000		

Indirect expenses for whole business of all three Departments are ₹ 10,800, out of this 1/6 of the whole are to be divided in all the three departments in proportion to 1:1:3 respectively and the balance of Indirect expenses is to be charged in proportion to departmental sales. Prepare Trading and Profit & Loss Account for the departments A, B and C.

[P.U. - 2010; Moderate]

## Solution:

# DEPARTMENTAL TRADING AND PROFIT & LOSS ACCOUNT

Dominulana	(101 (1	ne Mont	hand .	LOSS ACCO	DUNT		
Particulars	A	В	C	B1st December, 2014)	ASIBLE		
To Stock (1-1-2014)	9,000	. ₹his	7	Particulars	A	В	C
To Purchases To Gross Profit* - c/d	07.000	8,400 21,600 10,800 40,800	90,000 20,400		42,000 10,800	36,000 4,800	1,02,000 20,400
To Salary To Indirect Expenses** To Net Profit	5,490 2,460 8,850	8,520 2,160 120	12,220 6,180	By Gross Profit b/d	52,800 16,800	40,800	1,22,400
Working Notes	16,800	10,800	2,000 20,400		16,800	10,800	20,400

#### **Working Notes:**

- (1) \*Gross Profit of Department A, B & C ; 40%, 30% & 20% respectively on sales : A =  $42,000 \times 40/100 = ₹ 16,800$ , B =  $36,000 \times 30/100 = ₹ 10,800$  & C =  $1,02,000 \times 20/100 = ₹ 20,400$
- (2) \*\*Distribution of Indirect Expenses among departments A, B & C (1/6 in ratio of 1:1:3 or 1/5:1/5:3/5); & 4/5 (balance) in ratio of Departmental Sales of A, B & C; *i.e.* 42:36:102=7:6:17 or 7/30:6/30:17/30

	Indirect Ex	xpenses	Dept. A	12 - 17 - 2 - 1			
-		·	Бері. А	Dept. B	Dept. C		
	$10,800 \times 1/6 = 1,800$ $10,800 \times 5/6 = 9,000$		$1,800 \times 1/5 = 360$	$1,800 \times 1/5 = 360$	$1,800 \times 3/5 = 1,080$		
· _			$9,000 \times 7/30 = 2,100$	$9,000 \times 6/30 = 1,800$	$9,000 \times 17/30 = 5,100$		
-	Total	₹ 10,800	₹2,460	₹ 2,160	₹ 6,180		

### Calculation of Manager's Commission on Net Profit.

Illustration 4. Mridul and Mayank Carry on their business as merchants in four departments viz. A, B, C and D. During a trading period the requisite figures are as follows:

Particulars Departments	, A	В	C	ı, D
The same of the same of the state of the same of the s	₹	. ₹	₹	. 7
Opening Stock	5,000	12,000	3,000	8,000
Purchases	45,000	18,000	7,000	18,000
Sales Live and the same and the	48.000	21,000	9,500	20,000
Closing Stock	12,000	14,000	2,000	4,500

The expenses for the trading period which are to be charged to each department in proportion to the sales of that department were as follows:

Rent and Rates ₹ 2,500; Sundry Expenses ₹ 1,800; Salaries etc. ₹ 10,500.

In addition, the manager of each department was entitled to a commission of 12.5% on the profits of his department after charging the foregoing expenses. Prepare a tabulated Trading and Profit and Loss Account showing the final result and the percentage thereof on sales in each department, together with the total result and percentage.

[R.U. – 2000; VBU – 2002]