Departmental Accounts
[Helps in Identifying performance of each Department]

## Concept+ 1:: Basis ff Allocation $\mathcal{I}$ Common Expenditure Among Departments

| Expenses | Basis |
| :--- | :--- |
| Rent, rates \& taxes, repairs \& maintenance, insurance of <br> building | Floor area occupied by each department |
| Lighting and Heating expenses | Consumption of energy by each department |
| Selling expenses, e.g., discount allowed, bad debts, selling <br> commission, freight outward, advertisement etc. | Sales (net) of each department |
| Carriage inward/ Discount received | Purchases (net) of each department |
| Wages/Salaries | Time devoted to each department |
| Depreciation, insurance, repairs \& maintenance of capital <br> assets | Value of assets of each department |
| Labour welfare expenses | Number of employees in each department |
| PF/ESI contributions | Wages and salaries of each department |
| Interest on Loan | Utilization of loan amount in each department (if can be <br> identified), otherwise in Combined P\&L A/c |
| Profit or Loss on sale of investment | Value of investments sold in each department (if can be <br> identified), otherwise in Combined P\&L A/c |

## Question

$\mathrm{M} / \mathrm{s}$. Delta is a Departmental Store having three departments X, Y and Z. The information regarding three departments for the year ended 31st March, 2020 are given below:

|  | Dept. X | Dept. Y | Dept. Z |
| :--- | :---: | :---: | :---: |
| Opening Stock | 18,000 | 12,000 | 10,000 |
| Purchases | 66,000 | 44,000 | 22,000 |
| Debtors at end | 7,500 | 5,000 | 5,000 |
| Sales | 90,000 | 67,500 | 45,000 |
| Closing stock | 22,500 | 8,750 | 10,500 |
| Value of Furniture in each department | 10,000 | 10,000 | 5,000 |
| Floor space occupied by each department (in sq. ft.) | 1,500 | 1,250 | 1,000 |
| Number of employees in each Deptt. | 25 | 20 | 15 |
| Electricity consumed by each Department (in units) | 300 | 200 | 100 |

Additional Information:

| Items | Amount |
| :--- | :---: |
| Carriage Inwards | 1,500 |
| Carriage Outwards | 2,700 |
| Salaries | 24,000 |
| Advertisement | 2,700 |
| Discount allowed | 2,250 |
| Discount received | 1,800 |
| Rent, Rates and Taxes | 7,500 |
| Depreciation on furniture | 3,000 |
| Electricity Expenses | 2,400 |
| Labour welfare expenses |  |

Prepare Departmental Trading and Profit \& Loss Account for the year ended 31st March, 2019 after providing provision for Bad Debts at 5\%.

## Solution

Departmental Trading and Profit and Loss Account for the year ended 31st March, 2020

| Particulars | Deptt.X | Deptt.Y | Deptt.Z | Particulars | Deptt.X | Deptt.Y | Deptt.Z |
| :--- | :---: | :---: | :---: | :--- | :---: | :---: | :---: |
| To Opening Stock | 18,000 | 12,000 | 10,000 | By Sales | 90,000 | 67,500 | 45,000 |
| To Purchases | 66,000 | 44,000 | 22,000 | By Closing Stock | 22,500 | 8,750 | 10,500 |
| To Carriage <br> Inwards | 750 | 500 | 250 |  |  |  |  |
| To G.P. c/d | 27,750 | 19,750 | 23,250 |  |  |  |  |
|  | $\mathbf{1 , 1 2 , 5 0 0}$ | $\mathbf{7 6 , 2 5 0}$ | $\mathbf{5 5 , 5 0 0}$ |  | $\mathbf{1 , 1 2 , 5 0 0}$ | $\mathbf{7 6 , 2 5 0}$ | $\mathbf{5 5 , 5 0 0}$ |
| To Car. Outward | 1,200 | 900 | 600 | By G.P. b/d | 27,750 | 19,750 | 23,250 |
| To Electricity | 1,500 | 1,000 | 500 | By Disc.received | 900 | 600 | 300 |
| To Salaries | 10,000 | 8,000 | 6,000 |  |  |  |  |
| To Advertisement | 1,200 | 900 | 600 |  |  |  |  |
| To Disc. allowed | 1,000 | 750 | 500 |  |  |  |  |
|  <br> Taxes | 3,000 | 2,500 | 2,000 |  |  |  |  |
| To Depreciation | 400 | 400 | 200 |  |  |  |  |
| To Provision for <br> Bad Debts | 375 | 250 | 250 |  |  |  |  |
| To Labour <br> welfare Expenses | 1,000 | 800 | $\mathbf{6 0 0}$ |  |  |  |  |
| To Net Profit | 8,975 | 4,850 | 12,300 |  | $\mathbf{2 8 , 6 5 0}$ | $\mathbf{2 0 , 3 5 0}$ | $\mathbf{2 3 , 5 5 0}$ |

## Working Note:

| Basis of allocation of expenses |  |
| :--- | :--- |
| Carriage inwards | Purchases (3:2:1) |
| Carriage outwards | Turnover (4:3:2) |
| Salaries | No. of Employees (5:4:3) |
| Advertisement | Turnover (4:3:2) |
| Discount allowed | Turnover (4:3:2) |
| Discount received | Purchases (3:2:1) |
| Rent, Rates and Taxes | Floor Space occupied (6:5:4) |
| Depreciation on furniture | Value of furniture $(2: 2: 1)$ |
| Labour welfare expenses | No. of Employees $(5: 4: 3)$ |
| Electricity expenses | Units consumed (3:2:1) |
| Provision for bad debts | Debtors balances $(3: 2: 2)$ |

## Question

Z Ltd. has 3 departments \& submits the following information for the year ending on 31st March, 2020:

|  | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | Total (Rs.) |
| :--- | :---: | :---: | :---: | :---: |
| Purchases (units) | 6,000 | 12,000 | 14,400 |  |
| Purchases (Amount) |  |  |  | $6,00,000$ |
| Sales (Units) | 6,120 | 11,520 | 14,976 |  |
| Selling Price (per unit) | 40 | 45 | 50 |  |
| Closing Stock (units) | 600 | 960 | 36 |  |

You are required to prepare departmental trading account of Z Ltd., assuming that the rate of profit on sales is uniform in each case.

## Solution

Departmental Trading Account for the year ended 31st March, 2020

| Particulars | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | Particulars | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| To Opening Stock <br> (W.N.-4) | 11,520 | 8,640 | 12,240 | By Sales | $2,44,800$ | $5,18,400$ | $7,48,800$ |
| To Purchases <br> (W.N.-2) | 96,000 | $2,16,000$ | $2,88,000$ | By Closing Stock <br> (W.N.-4) | 9,600 | 17,280 | 720 |
| To G.P. c/d <br> (Bal.Fig.) | $1,46,880$ | $3,11,040$ | $4,49,280$ |  |  |  |  |
|  | $\mathbf{2 , 5 4 , 4 0 0}$ | $\mathbf{5 , 3 5 , 6 8 0}$ | $\mathbf{7 , 4 9 , 5 2 0}$ |  | $\mathbf{2 , 5 4 , 4 0 0}$ | $\mathbf{5 , 3 5 , 6 8 0}$ | $\mathbf{7 , 4 9 , 5 2 0}$ |

## Working Notes:

(1) Profit Margin Ratio

|  | Rs. |
| :--- | :---: |
| Selling price of units purchased |  |
| Department A (6,000 units x Rs. 40) | $2,40,000$ |
| Department B (12,000 units x Rs. 45) | $5,40,000$ |
| Department C (14,400 units x Rs. 50) | $7,20,000$ |
| Total selling price of purchased units | $15,00,000$ |
| Less: Purchases | $(6,00,000)$ |
| Gross profit | $\mathbf{9 , 0 0 , 0 0 0}$ |

$$
\begin{aligned}
\text { Profit margin ratio } & =\frac{\text { Gross profit x }}{\text { Selling price }} 100 \\
& =\frac{9,00,000 \times 100}{15,00,000}=60 \%
\end{aligned}
$$

(2) Statement showing department-wise per unit cost and purchase cost

| Particulars | A | B | C |
| :--- | :---: | :---: | :---: |
| Selling price per unit | 40 | 45 | 50 |
| Less: Profit margin @ 60\% | $(24)$ | $(27)$ | $(30)$ |
| Purchase price per unit (Rs.) | 16 | 18 | 20 |
| No. of units purchased | 6,000 | 12,000 | 14,400 |
| Purchases <br> (Purchase cost per unit x units purchased) | 96,000 | $2,16,000$ | $2,88,000$ |

(3) Statement showing calculation of department-wise Opening Stock (in units)

| Particulars | A | B | C |
| :--- | :---: | :---: | :---: |
| Sales (Units) | 6,120 | 11,520 | 14,976 |
| Add: Closing Stock (Units) | 600 | 960 | 36 |
|  | 6,720 | 12,480 | 15,012 |
| Less: Purchases (Units) | $(6,000)$ | $(12,000)$ | $(14,400)$ |
| Opening Stock | 720 | 480 | 612 |

(4) Statement showing department-wise cost of Opening and Closing Stock

| Particulars | A | B | C |
| :--- | :---: | :---: | :---: |
| Cost of Opening Stock (Rs.) | $720^{*} 16$ <br> $=11,520$ | $480^{*} 18$ <br> $=8,640$ | $612 * 20$ <br> $=12,240$ |
| Cost of Closing Stock (Rs.) | $600^{*} 16$ | $960^{*} 18$ | $36 * 20$ |
|  | $=9,600$ | $=17,280$ | $=720$ |

Concept 2: Stock Reserve / Provision for Unredised Profit

Year End: Pl ARc - Dr.
To Stock Reserve

Next Year Stock Reserve $A / c-\partial r$
Beginning TO PAL ALL

Combined/Generd PAL A/C


TRANSFER


At Cost
$\downarrow$

At Market Price / At Selling Pice

No Stock Resume


$$
S R=\begin{gathered}
\text { Value } \\
\text { Given }
\end{gathered} \begin{gathered}
\text { ap Rate of } \\
\text { Trangua } \\
\text { dept. }
\end{gathered}
$$

$S R=\operatorname{Value} \times \underset{\text { acpt. }}{ } \quad$ Rate Tranguor
8
(3) Valve of stack $=$ Stock of Tranguce dept. $x$ value of Trances

$$
\text { Trangeu }+ \text { Purchases }+\underset{\text { Expenses }}{\text { Direct }}
$$

U

$$
\begin{aligned}
\text { Stock Resume }= & \begin{array}{r}
\text { Valve of stock of } \\
\text { Trangeior dept. }
\end{array} \quad \begin{array}{c}
\text { GP Rate of Trangecor } \\
\text { Dept. }
\end{array}
\end{aligned}
$$

## Question

M/s. Ravi Enterprises has two Departments, Finished Leather and Shoes. Shoes are made by the Firm itself out of leather supplied by Leather Department at its usual selling price.
From the following figures, prepare Departmental Trading and Profit \& Loss Account for the year ended 31st March, 2020:

|  | Finished Leather <br> Department | Shoes Department |
| :--- | :---: | :---: |
| Opening Stock (As on 01.04.2019) | $30,20,000$ | $4,30,000$ |
| Purchases | $1,50,00,000$ | $2,60,000$ |
| Sales | $1,80,00,000$ | $45,20,000$ |
| Transfer to Shoes Department | $30,00,000$ | - |
| Manufacturing expenses | - | $5,00,000$ |
| Selling expenses | $1,50,000$ | 60,000 |
| Rent \& warehousing | $5,00,000$ | $3,00,000$ |
| Stock on 31.03.2020 | $12,20,000$ | $5,00,000$ |

The following further information are available for necessary consideration:
(i) The stock in Shoes Department may be considered as consisting of $75 \%$ of Leather and $25 \%$ of other expenses.
(ii) The Finished Leather Department earned a Gross Profit @ 15\% in 2018-19.
(iii) General expenses of the business as a whole amount to Rs. 8,50,000

Solution
Departmental Trading and P\&L Account for the year ended 31st March, 2020

| Particulars | Finished <br> Leather | Shoes | Particulars | Finished <br> Leather | Shoes |
| :--- | :---: | :---: | :--- | :---: | :---: |
| To Opening Stock | $30,20,000$ | $4,30,000$ | By Sales | $1,80,00,000$ | $45,20,000$ |
| To Purchases | $1,50,00,000$ | $2,60,000$ | By Transfer | $30,00,000$ |  |
| To Manufacturing <br> expenses |  | $5,00,000$ | By Closing Stock | $12,20,000$ | $5,00,000$ |
| To Transfer |  | $30,00,000$ |  |  |  |
| To G.P. c/d | $42,00,000$ | $8,30,000$ |  |  |  |
|  | $\mathbf{2 , 2 2 , 2 0 , 0 0 0}$ | $\mathbf{5 0 , 2 0 , 0 0 0}$ |  | $\mathbf{2 , 2 2 , 2 0 , 0 0 0}$ | $\mathbf{5 0 , 2 0 , 0 0 0}$ |
| To Selling expenses | $1,50,000$ | 60,000 | By G.P. b/d | $42,00,000$ | $8,30,000$ |
| To Rent \& warehousing | $5,00,000$ | $3,00,000$ |  |  |  |
| To Net profit | $35,50,000$ | $4,70,000$ |  | $\mathbf{4 2 , 0 0 , 0 0 0}$ | $\mathbf{8 , 3 0 , 0 0 0}$ |
|  | $\mathbf{4 2 , 0 0 , 0 0 0}$ | $\mathbf{8 , 3 0 , 0 0 0}$ |  |  |  |

General Profit and Loss Account

| Particulars | Rs. | Particulars | Rs. |
| :--- | :---: | :--- | :---: |
| To General expenses | $8,50,000$ | By Net profit |  |
| To Unrealized profit/Stock Reserve <br> Closing(Refer W.N.) | 75,000 | Department-Finished Leather | $35,50,000$ |
| To General net profit (Bal.fig.) | $31,43,375$ | Department-Shoes | $4,70,000$ |
|  |  | By Unrealized profit/Stock <br> Reserve :Opening (Refer W.N.) | 48,375 |
|  | $\mathbf{4 0 , 6 8 , 3 7 5}$ |  | $\mathbf{4 0 , 6 8 , 3 7 5}$ |

## Working Note:

## Calculation of Stock Reserve

Rate of Gross Profit of Finished leather Department, for the year 2019-20
$=$ Gross Profit $\times 100=[(42,00,000) /(1,80,00,000+30,00,000)] \times 100=20 \%$ Total Sales

Closing Stock of Finished leather in Shoes Department $=75 \%$ i.e. Rs. 5,00,000 $\times 75 \%=$ Rs. $3,75,000$
Stock Reserve required for unrealized profit @ $20 \%$ on closing stock Rs. 3,75,000 x $20 \%=$ Rs. 75,000
Stock reserve for unrealized profit included in opening stock of Shoes dept. @ $15 \%$ i.e.
(Rs. 4,30,000 x 75\% x 15\%) = Rs. 48,375

## Question

Siva Ltd. has two departments X and Y . From the following particulars prepare departmental trading accounts and general profits and loss account for the year ending 31st March, 2020:

|  | X (Rs.) | Y (Rs.) |
| :--- | :---: | :---: |
| Opening Stock (at cost) | 80,000 | 48,000 |
| Purchases | $3,68,000$ | $2,72,000$ |
| Sales | $5,60,000$ | $4,48,000$ |
| Wages | 48,000 | 32,000 |
| Carriage inward | 8,000 | 8,000 |
| Closing Stock: <br> Purchased goods <br> Finished goods | 18,000 | 24,000 |
| Purchased goods transferred: <br> by Y to X <br> by X to Y | 40,000 | 56,000 |
| Finished goods transferred: <br> by Y to X <br> by X to Y | $1,40,000$ | $1,60,000$ |
| Return of finished goods: <br> by Y to X <br> by X to Y | 40,000 | 28,000 |

Purchased goods have been transferred mutually at their respective departmental purchase cost and finished goods at departmental market price and that $25 \%$ of the closing finished stock with each department represents finished goods received from the other department.

## Solution

Departmental Trading Account for the year ended 31st March, 2020

| Particulars | X | Y | Particulars | $\mathbf{X}$ | $\mathbf{Y}$ |
| :--- | :---: | :---: | :--- | :---: | :---: |
| To Opening Stock | 80,000 | 48,000 | By Sales | $5,60,000$ | $4,48,000$ |
| To Purchases | $3,68,000$ | $2,72,000$ | By Transfers: |  |  |
| To Carriage inward | 8,000 | 8,000 | Purchased goods | 32,000 | 40,000 |
| To Wages | 48,000 | 32,000 | Finished goods (Net) | $1,20,000$ | $1,12,000$ |
| To Transfers: |  |  | By Closing Stock |  |  |
| Purchased goods | 40,000 | 32,000 | Purchased goods | 18,000 | 24,000 |
| Finished goods (Net) | $1,12,000$ | $1,20,000$ | Finished goods | 96,000 | 56,000 |
| To G.P. c/d | $1,70,000$ | $1,68,000$ |  |  |  |
|  | $\mathbf{8 , 2 6 , 0 0 0}$ | $\mathbf{6 , 8 0 , 0 0 0}$ |  | $\mathbf{8 , 2 6 , 0 0 0}$ | $\mathbf{6 , 8 0 , 0 0 0}$ |

## Net transfer of Finished Goods by

Department X to Y = Rs. $(1,60,000-40,000)=$ Rs. $1,20,000$
Department $Y$ to $X=$ Rs. $(1,40,000-28,000)=$ Rs. $1,12,000$

## Profit and Loss A/c

for the year ended 31st March, 2020

| Particulars | Rs. | Particulars | Rs. |
| :--- | :---: | :--- | :---: |
| To Provision for unrealized <br> profit included in closing stock |  | By Gross profit b/d |  |
| Department X (W.N. 3) | 7,200 | Department X | $1,70,000$ |
| Department Y (W.N. 3) | 3,500 | Department Y | $1,68,000$ |
| To Net profit | $3,27,300$ |  |  |
|  | $\mathbf{3 , 3 8 , 0 0 0}$ |  | $\mathbf{3 , 3 8 , 0 0 0}$ |

## Working Notes:

1. Calculation of rates of gross profit margin on sales

| Particulars | $\mathbf{X}$ | $\mathbf{Y}$ |
| :--- | :---: | :---: |
| Sales | $5,60,000$ | $4,48,000$ |
| Add: Transfer of finished goods | $1,20,000$ | $1,12,000$ |
|  | $\mathbf{6 , 8 0 , 0 0 0}$ | $\mathbf{5 , 6 0 , 0 0 0}$ |
| Gross Profit | $1,70,000$ | $1,68,000$ |
| Gross profit margin $=$ | $\underline{1,70,000} \times 100=25 \%$ | $\underline{1,68,000} \times 100=30 \%$ |

## 2. Finished goods from other department included in the closing stock

| Particulars | X | Y |
| :--- | :---: | :---: |
| Stock of finished goods | 96,000 | 56,000 |
| Stock related to other department <br> (25\% of finished goods) | 24,000 | 14,000 |

3. Unrealized profit included in the closing stock

Department $\mathrm{X}=30 \%$ of Rs. $24,000=$ Rs. 7,200
Department $Y=25 \%$ of Rs. $14,000=$ Rs. 3,500

Concep+2A: Srock Resure


Indirectey Propit y A included in cistock.

Elample: Bis closing stock $=200000$ Content Ratio: $30 \%$ [A in B]
C's Closing stock $=500000$ Content Ratio: $60 \%$ [ B in $C$ ]
GP Ratio's $A \rightarrow B: 25 \%$ on soles

$$
B \rightarrow C: 25 \% \text { of cost }
$$

Stock Resuve
Dept.B: $\quad$ Pirgit y $A$ included in $B j$ stock

$$
\Rightarrow(200000 \times 30 \%) \times \frac{25}{100}=15000
$$

Dept:C
Profit of $B$ included in C's stock

$$
\Rightarrow \underbrace{(500000 \times 60 \%)}_{300000} \times \frac{25}{125} \Rightarrow 60000
$$

Cost to B $=300000-60000 \Rightarrow 240000$
Progit of $A$ included in C's stock

$$
\Rightarrow(240000 \times 30 \%) \times \frac{25}{100} \Rightarrow 18000
$$

Concep+3: Mangerj Connission

Deparment ingits $=$ Departmented Pryits Degore stock Resure for Manager commission

Less: Jtock Resure

## Question

$\mathrm{M} / \mathrm{s}$ Chandu has 3 departments viz. A,B \& C. Department A sells goods to Department B \& Department C at a profit of $25 \%$ on cost. Department $B$ sells goods to $A$ and $C$ at a profit of $331 / 3 \%$ on cost.
Department C sells goods to A and B at $20 \%$ profit on transfer price. Departmental managers are entitled to $10 \%$ commission on net profit subject to unrealized profit on departmental transfers being eliminated.
Departmental profits after charging manager's commission, but before adjustment of unrealized profit are:

| Department A | $1,57,500$ |
| :--- | :--- |
| Department B | $1,62,000$ |
| Department C | $2,16,000$ |

Stocks lying at different departments at the end of the year are as under:

|  | Dept A | Dept B | Dept C |
| :--- | :---: | :---: | :---: |
| Transfer from Department A | - | 25,000 | 18,000 |
| Transfer from Department B | 9,000 | - | 6,000 |
| Transfer from Department C | 25,000 | 27,000 | - |

Find out the correct departmental Profits after charging Managers' commission.

Solution

## Calculation of Correct Departmental Profit

| Particulars | Departments |  |  |
| :--- | :---: | :---: | :---: |
|  | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ |
| Profit before adjustment of unrealized profits | $1,57,500$ | $1,62,000$ | $2,16,000$ |
| Add : Managerial commission (1/9) | 17,500 | 18,000 | 24,000 |
|  | $\mathbf{1 , 7 5 , 0 0 0}$ | $\mathbf{1 , 8 0 , 0 0 0}$ | $\mathbf{2 , 4 0 , 0 0 0}$ |
| Less: Unrealised profit on stock (Refer W.N.) | $(8,600)$ | $(3,750)$ | $(10,400)$ |
| Profit before Manager's commission | $\mathbf{1 , 6 6 , 4 0 0}$ | $\mathbf{1 , 7 6 , 2 5 0}$ | $\mathbf{2 , 2 9 , 6 0 0}$ |
| Less: Managers' commission @ 10\% | $(16,640)$ | $(17,625)$ | $(22,960)$ |
|  <br> after Manager's commission | $\mathbf{1 , 4 9 , 7 6 0}$ | $\mathbf{1 , 5 8 , 6 2 5}$ | $\mathbf{2 , 0 6 , 6 4 0}$ |

## Working Notes:

Value of Unrealised profit

| Particulars | A | B | C | Total |
| :---: | :---: | :---: | :---: | :---: |
| Department A | - | $25,000 \times 25 / 125=5,000$ | $18,000 \times 25 / 125=3,600$ | $\mathbf{8 , 6 0 0}$ |
| Department B | $9,000 \times 1 / 4=2,250$ | - | $6,000 \times 1 / 4=1,500$ | $\mathbf{3 , 7 5 0}$ |
| Department C | $25,000 \times 20 \%=5,000$ | $27,000 \times 20 \%=5,400$ | - | $\mathbf{1 0 , 4 0 0}$ |

Concept 4: Memorandum Stock \& Memorandum Markup Account
Under this method:
Afc No. 1: Memorandum Deparment stock A/c [ Cost + Markup ie. JP]
Debited: Opening Stock; Purchases, Transfer from other Dept.
Credited: Solus, shortage/Asnoumd loss, Tranyfer to other Dept.
Bel. fig: Closing stock
Ak No. 2: Memorandum Department Mark up Ak [Mark up]
Markup/ Loading reversed in this $A / c$ of above stock $A / C$. [of every item Boe.jig: Gross ingot except soles]

Note: Mark Down (ie Reduction in SP) entered in both the above mentioned Avs.

## Question

Martis Ltd. has several departments. Goods supplied to each department are debited to a Memorandum Departmental Stock Account at cost, plus a fixed percentage (mark-up) to give the normal selling price. The mark-up is credited to a memorandum departmental 'Mark-up account', any reduction in selling prices (mark-down) will require adjustment in the stock account and in mark-up account. The mark up for Department A for the last three years has been $25 \%$. Figures relevant to Department A for the year ended 31st March, 2020 were as follows:

| Opening stock as on 1st April, 2019, at cost | 65,000 |
| :--- | :---: |
| Purchase at cost | $2,00,000$ |
| Sales | $3,00,000$ |

It is further ascertained that:
a) Shortages of stock found in the year ending 31.03 .2020 , costing Rs. 1,000 were written off.
b) Opening stock on 01.04 .19 including goods costing Rs. 6,000 had been sold during the year and had been marked down in the selling price by Rs. 600 . The remaining stock had been sold during the year.
c) Goods purchased during the year were marked down by Rs. 1,200 from a cost of Rs. 15,000. Markeddown stock costing Rs. 5,000 remained unsold on 31.03.20.
d) The departmental closing stock is to be valued at cost subject to adjustment for mark-up and markdown.

You are required to prepare :
(i) A Departmental Trading Account for Department A for the year ended 31st March, 2020 in the books of Head Office.
(ii) A Memorandum Stock Account for the year.
(iii) A Memorandum Mark-up Account for the year.

Department Trading Account

| Particulars | Rs. | Particulars | Rs. |
| :--- | :---: | :--- | :---: |
| To Opening Stock | 65,000 | By Sales | $3,00,000$ |
| To Purchases | $2,00,000$ | By Shortage | 1,000 |
| To Gross Profit c/d | 58,880 | By Closing Stock | 22,880 |
|  | $\mathbf{3 , 2 3 , 8 8 0}$ |  | $\mathbf{3 , 2 3 , 8 8 0}$ |

Memorandum Stock Account (for Department A) (at selling price)

| Particulars | Rs. | Particulars | Rs. |
| :--- | :---: | :--- | :---: |
| To Balance b/d <br> (65,000+25\% of 65,000) | 81,250 | By Profit \& Loss A/c <br> (Cost of Shortage) | 1,000 |
| To Purchases <br> $(2,00,000+25 \%$ of 2,00,000) | $2,50,000$ | By Memorandum Departmental Mark <br> up A/c (Load on Shortage)(1,000 x 25\%) | 250 |
|  |  | By Memorandum Departmental Mark-up <br> A/c (Mark-down on Current Purchases) | 1,200 |
|  |  | By Debtors A/c (Sales) <br> A/c (Marandum Departmental Mark-up <br> Alawn on Opening Stock) | $3,00,000$ |
|  |  | By Balance c/d | 28,200 |
|  | $\mathbf{3 , 3 1 , 2 5 0}$ |  | $\mathbf{3 , 3 1 , 2 5 0}$ |

Memorandum Departmental Mark-up Account

| Particulars | Rs. | Particulars | Rs. |
| :--- | :---: | :--- | :---: |
| To Memorandum Departmental <br> Stock A/c (1,000 $\times 25 / 100)$ | 250 | By Balance b/d <br> $(81,250 \times 25 / 125)$ | 16,250 |
| To Memorandum Departmental <br> Stock A/c | 1,200 | By Memorandum Departmental <br> Stock A/c (2,50,000 x 25/125) | 50,000 |
| To Memorandum Departmental <br> Stock A/c | 600 |  |  |
| To Gross Profit transferred to <br> Profit \& Loss A/c | 58,880 |  |  |
| To Balance c/d <br> $\left[\left(28,200+400^{*}\right) \times 25 / 125-400\right]$ | 5,320 |  | $\mathbf{6 6 , 2 5 0}$ |
|  | $\mathbf{6 6 , 2 5 0}$ |  |  |

*[1,200 $\times 5,000 / 15,000]=400$

## Working Notes:

(i) Calculation of Cost of Sales

| Sales as per Books | $3,00,000$ |
| :--- | :---: |
| Add: Mark-down in opening stock (given) | 600 |
| Add: mark-down in sales out of current Purchases <br> $(1,200 \times 10,000 / 15,000)$ | 800 |
| Value of sales if there was no mark-down | $3,01,400$ |
| Less: Gross Profit $(25 / 125$ of $3,01,400)$ subject to <br> Mark Down $(600+800)$ | $(60,280)$ |
| Cost of sales | $\mathbf{2 , 4 1 , 1 2 0}$ |

(ii) Calculation of Closing Stock

| Opening Stock | 65,000 |
| :--- | :---: |
| Add: Purchases | $2,00,000$ |
| Less: Cost of Sales | $(2,41,120)$ |
| Less: Shortage | $(1,000)$ |
| Closing Stock | $\mathbf{2 2 , 8 8 0}$ |

