# **Chapter 11- Depreciation**

Q.1 Calculate the Amount of annual Depreciation and Rate of Depreciation under Straight Line Method (SLM) from the following:

Purchased a second-hand machine for ₹ 96,000, spent ₹ 24,000 on its cartage, repairs and installation, estimated useful life of machine 4 years. Estimated residual value ₹ 72,000.

The solution can be presented as follows

Annual Depreciation = (Cost of Machine -Scrap Value of Machine) / Life in Years

- = (1,20,000 72,000) / 4
- =48000/4
- = ₹ 12,000

Rate of Depreciation = (Amount of Depreciation / Cost of Machine) ×100

- $= (12,000/1,20,000) \times 100$
- =10%

Q.2 On 1st April, 2019, X Ltd. purchased a machine costing ₹ 4,00,000 and spent ₹ 50,000 on its installation. The estimated life of the machinery is 10 years, after which its residual value will be ₹ 50,000 only. Find the amount of annual depreciation according to the Fixed Instalment Method and prepare Machinery Account for the first three years. The books are closed on 31st March every year.

The solution can be presented as follows



# Book of X Ltd. Machinery Account

Dr. Cr.

| Date   | Particulars                | J.F. | Amount<br>(₹) | Date   | Particulars  | J.F. | Amount<br>(₹) |
|--------|----------------------------|------|---------------|--------|--------------|------|---------------|
| 2019   |                            |      |               | 2020   |              |      |               |
| Apr-01 | Bank                       |      | 4,00,000      | Mar.31 | Depreciation |      | 40,000        |
| Apr-01 | Bank (Erection<br>Expense) |      | 50,000        |        | Balance c/d  |      | 4,10,000      |
|        |                            |      | 4,50,000      |        |              |      | 4,50,000      |
| 2020   |                            |      |               | 2021   |              |      |               |
| Apr-01 | Balance b/d                |      | 4,10,000      | Mar.31 | Depreciation |      | 40,000        |
|        |                            |      |               |        | Balance c/d  |      | 3,70,000      |
|        |                            |      | 4,10,000      |        |              |      | 4,10,000      |
| 2021   |                            |      |               | 2022   |              |      |               |
| Apr-01 | Balance b/d                |      | 3,70,000      | Mar.31 | Depreciation |      | 40,000        |
|        |                            |      |               |        | Balance c/d  |      | 3,30,000      |
|        |                            |      | 3,70,000      |        |              |      | 3,70,000      |
|        |                            |      |               |        |              |      | _             |

Working Note:

Depreciation can be calculated as

Depreciation = (4,00,000 + 50,000 - 50,000) / 10

= 4,00,000 / 10

= 40,000







Q.3 On 1st April, 2015, furniture costing ₹ 55,000 was purchased. It is estimated that its life is 10 years at the end of which it will be sold for ₹ 5,000. Additions are made on 1st April 2016 and 1st October, 2018 to the value of ₹ 9,500 and ₹ 8,400 (Residual values ₹ 500 and ₹ 400 respectively). Show the Furniture Account for the first four years, if Depreciation is written off according to the Straight-Line Method.

The solution can be presented as follows

Dr.

#### **Furniture Account**

| Date           | Particulars    |        | J.F | Amount (₹) | Date      | Particulars                      |        | J.F. | Amount (₹) |
|----------------|----------------|--------|-----|------------|-----------|----------------------------------|--------|------|------------|
| 2015           |                |        |     |            | 2016      |                                  |        |      |            |
| Apr-01         | To Bank A/c    |        |     | 55,000     | Mar-31    | By<br>Depreciation A/c Furniture |        |      | 5000       |
|                |                |        |     |            | Mar-31    | By Balance c/d Furniture 1       |        |      | 50,000     |
|                |                |        |     | 55,000     |           |                                  |        |      | 55,000     |
| 2016           |                |        |     |            | 2017      |                                  |        |      |            |
| Apr 01         | To Balance b/d |        |     | 50,000     |           | By Depreciation A/c              |        |      |            |
|                | Furniture 1    |        |     |            |           | Furniture 1                      | 5,000  |      |            |
| Apr-01         | To Bank A/c    |        |     | 9,500      |           | Furniture 2                      | 900    |      | 5,900      |
|                | Furniture 2    |        |     |            |           |                                  |        |      |            |
|                |                |        |     |            | Mar-31    | By Balance c/d                   |        |      |            |
|                |                |        |     |            |           | Furniture 1                      | 45,000 |      |            |
|                |                |        |     |            |           | Furniture 2                      | 8,600  |      | 53,60      |
|                |                |        |     | 59,500     |           |                                  |        |      | 59,50      |
| 2017           |                |        |     |            | 2018      |                                  |        |      |            |
| Apr-01         | To Balance b/d |        |     |            | Mar-31    | By Depreciation A/c              |        |      |            |
|                | Furniture 1    | 45,000 |     |            |           | Furniture 1                      | 5,000  |      |            |
|                | Furniture 2    | 8,600  |     | 53,600     |           | Furniture 2                      | 900    | ļ    | 5,900      |
|                |                |        |     |            | Mar-31    | By Balance c/d                   |        |      |            |
|                |                |        |     |            |           | Furniture 1                      | 40,000 |      |            |
|                |                |        |     | 52.000     |           | Furniture 2                      | 7,700  | l    | 47,700     |
| 2018           |                |        |     | 53,600     |           |                                  |        |      | 53,600     |
| 2018<br>Apr-01 | To Balance b/d |        |     |            | 2019      | Dy Donrociation A/a              |        |      |            |
| Apr-0 i        | Furniture 1    | 40,000 |     |            | IVIAI-3 I | By Depreciation A/c Furniture 1  | 5,000  |      |            |
|                | Furniture 2    | 7,700  |     | 47,700     |           | Furniture 2                      | 900    |      |            |
|                | Fulfillale 2   | 1,700  | 1   | 47,700     |           | Furniture 3                      | 400    |      | 6,300      |
| Oct-01         | To Bank A/c    |        |     | 8,400      |           | i urniture 3                     | 400    | ł    | 0,500      |
| 001-01         | TO Bank Ac     |        |     | 0,400      |           | By Balance c/d                   |        |      |            |
|                |                |        |     |            |           | Furniture 1                      | 35,000 |      |            |
|                |                |        |     |            |           | Furniture 2                      | 6,800  |      |            |
|                |                |        |     |            |           | Furniture 3                      | 8,000  |      | 49,800     |
|                |                |        |     | 56,100     |           |                                  | ·      | 1    | 56,100     |



Cr.

## **Working Notes:**

We know that

Annual Depreciation = (Cost of Asset -Scrap Value of Asset) / Life in Years

Now for Furniture 1

Annual Depreciation = (55000 - 5000) / 10

= 50000 / 10

=5000

Furniture 2

Annual Depreciation = (9500 - 500) / 10

= 9000 / 10

= 900

Furniture 3

Annual Depreciation = (8400 - 400) / 10

= 8000 / 10

= 800

As furniture was purchased 6 months into the accounting hence depreciation for 6 months will be half therefore it will be 400.



## Q.4 From the following transactions of a concern, prepare the Machinery Account for the year ended 31st March, 2019:

1st April, 2018 Purchased a second-hand machinery for ₹ 40,000

Spent ₹ 10,000 on repairs for making it 1st April, 2018

serviceable. 30th September,

2018

Purchased additional new machinery for ₹ 20,000.

31st December,

Repairs and renewal of machinery ₹ 3,000. 2018

31st March, 2019 Depreciate the machinery at 10% p.a.

The solution can be presented as follows

#### **Machinery Account**

Dr. Cr.

| Date   | Particulars | J.F. | Amount<br>(₹) | Date   | Particular           | J.F. | Amount<br>(₹) |
|--------|-------------|------|---------------|--------|----------------------|------|---------------|
| 2018   |             |      |               | 2019   |                      |      |               |
| Apr.01 | Bank (M1)   |      | 50,000        | Mar.31 | Depreciation         |      |               |
| Sep-30 | Bank (M2)   |      | 20,000        |        | M1 5,000             |      |               |
|        |             |      |               |        | M2 (6 months) 1,000  |      | 6,000         |
|        |             |      |               | Mar.31 | Balance c/d          | 1    |               |
|        |             |      |               |        | M1 45,000            |      |               |
|        |             |      |               |        | M2 (6 months) 19,000 | J    | 64,000        |
|        |             |      | 70,000        |        |                      |      | 70,000        |

Note: The expenses for repair will not be accounted as repair was done after the machine was put to use.





Q.5 An asset was purchased for ₹ 10,500 on 1st April, 2012. The scrap value was estimated to be ₹ 500 at the end of asset's 10 years' life. Straight Line Method of depreciation was used. The accounting year ends on 31st March every year. The asset was sold for ₹ 600 on 31st March, 2019. Calculate the following.

- (i) The Depreciation expense for the year ended 31st March, 2013.
- (ii) The net book value of the asset on 31st March, 2017.
- (iii) The gain or loss on sale of the asset on 31st March, 2019.

The solution can be presented as follows

#### Asset Account

| 9,500                    |
|--------------------------|
| 1,000<br>9,500<br>10,500 |
| 9,500                    |
| 9,500                    |
|                          |
| 10,500                   |
|                          |
|                          |
| 1,000                    |
| 8,500                    |
| 9,500                    |
|                          |
| 1,000                    |
| 7,500                    |
| 8,500                    |
|                          |
| 1,000                    |
| 6,500                    |
| 7,500                    |
| 4.00                     |
| 1,000                    |
| 5,500<br>6,500           |
| 0,300                    |
| 1,000                    |
| 4,500                    |
| 5,500                    |
| ,                        |
| 1,000                    |
| 600                      |
| 2,900                    |
| 4,500                    |
| .,,                      |
|                          |



#### The following values are obtained

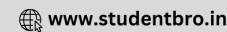
- (i) For the year ended March 31, 2013 Depreciation Expense is ₹ 1000
- (ii) The Net Book Value of the asset on March 31, 2017 is found to be ₹ 5,500
- (iii) Loss on Sale of the asset on March 31, 2019 was calculated to be ₹ 2,900

Q.6 On 1st April, 2015, A Ltd. purchased a machine for ₹ 2,40,000 and spent ₹ 10,000 on its erection. On 1st October, 2015 an additional machinery costing ₹ 1,00,000 was purchased. On 1st October, 2017, the machine purchased on 1st April, 2015 was sold for ₹ 1,43,000 and on the same date, a new machine was purchased at cost of ₹ 2,00,000.

Show the Machinery Account for the first four financial years after charging Depreciation at 5% p.a. by the Straight-Line Method.

The solution can be presented as follows





| _ | _ |   |   |
|---|---|---|---|
| г |   |   | • |
|   | J | • |   |

Cr.

| Date   | Particulars                       | J.F        | Amount(₹) | Date      | Particulars                                       | J.F. | Amount(₹)            |
|--------|-----------------------------------|------------|-----------|-----------|---|------|----------------------|
| 2015   |                                   |            |           | 2016      |   |      |                      |
| Apr-01 | To Bank A/c<br>(2,40,000 +10,000) |            | 2,50,000  | Mar-31    | By Depreciation A/c                               |      |                      |
|        | Machinery 1                       |            |           |           | Machinery 1 12,50                                 | 0    |                      |
| Oct-01 | To Bank A/c                       |            | 1,00,000  |           | Machinery 2 (for 6 Months) 2,50                   | 0    | 15,000               |
|        | Machinery 2                       |            |           | Mar-31    | By Balance c/d                                    |      |                      |
|        |                                   |            |           |           | Machinery 1 2,37,50                               |      |                      |
|        |                                   |            | 3,50,000  |           | Machinery 2 <u>97,50</u>                          | 0    | 3,35,000<br>3,50,000 |
| 2016   |                                   |            | 3,30,000  | 2017      |   |      | 3,30,000             |
| Apr-01 | To Balance b/d                    |            |           | Mar-31    | By Depreciation A/c                               |      |                      |
|        | Machinery 1 2,37, Machinery 2 97, | 500<br>500 | 3,35,000  |           | Machinery 1 12,50 Machinery 2 5,00 By Balance c/d |      | 17,500               |
|        |                                   |            |           |           | Machinery 1 2,25,00 Machinery 2 92,50             |      | 3,17,500             |
|        |                                   |            | 3,35,000  |           | <u> </u>  | Ĭ    | 3,35,000             |
| 2017   |                                   |            |           | 2017      |   |      |                      |
| Apr-01 | To Balance b/d                    |            |           | Oct-01    | By Depreciation A/c (for 6 months)                |      | 6,250                |
|        | Machinery 1 2,25,                 | 000        |           | Oct-01    | To Bank A/c                                       |      | 1,43,000             |
|        | Machinery 2 92,                   | 500        | 3,17,500  |           | (Machinery 1 sold)                                |      |                      |
|        |                                   |            |           | Oct-01    | By Profit and loss A/c                            |      | 75,750               |
|        |                                   |            |           | 2018      | (loss on sale)                                    |      |                      |
| Oct-01 | To Bank A/c                       |            | 2 00 000  |           | By Depreciation A/c                               |      |                      |
| 001-01 | TO Balik A/C                      |            | 2,00,000  | iviai-5 i | Machinery 2 5,00                                  | 0    |                      |
|        |                                   |            |           |           | Machinery 3 (for 6 months) 5,00                   |      | 10,000               |
|        |                                   |            |           | Mar-31    | By Balance c/d                                    | -    | 10,000               |
|        |                                   |            |           | livial or | Machinery 2 87,50                                 | 0    |                      |
|        |                                   |            | 5.47.500  |           | Machinery 3 <u>1,95,00</u>                        | 0    | 2,82,500             |
| 2018   |                                   |            | 5,17,500  | 2019      |   |      | 5,17,500             |
| Apr-01 | To Balance b/d                    |            |           |           | By Depreciation A/c                               |      |                      |
|        |                                   | 500        |           |           | Machinery 2 5,00                                  | 0    |                      |
|        | Machinery 2 1,95,                 |            | 2,82,500  |           | Machinery 3                                       |      | 15,000               |
|        |                                   |            |           | Mar-31    | By Balance c/d<br>Machinery 2 82,50               | 0    |                      |
|        |                                   |            |           |           | Machinery 3 1,85,00                               |      | 2,67,500             |
|        |                                   |            | 2,82,500  |           |   | 1    | 2,82,500             |





## **Working Notes:**

1. Deprecation for machines can be calculated as

Machine  $1 = 2,50,000 \times 5 / 100$ 

= 12,500

Machine  $2 = 1,00,000 \times 5 / 100$ 

= 5,000

Machine  $3 = 2,00,000 \times 5 / 100$ 

= 10,000

## 2. Calculation of profit or loss on sale of Machine 1

| Particulars                      | Amount<br>(₹) |
|----------------------------------|---------------|
| Book Value on April 01, 2017     | 2,25,000      |
| Less: Deprecation for six months | -6,250        |
| Book Value on Oct. 01, 2017      | 2,18,750      |
| Less: Sale Proceeds              | -1,43,000     |
| Loss on Sale of Machine          | 75,750        |



Q.7 A Van was purchased on 1st April, 2016 for ₹ 60,000 and ₹ 5,000 was spent on its repair and registration. On 1st October, 2017 another van was purchased for ₹ 70,000. On 1st April, 2018, the first van purchased on 1st April, 2016 was sold for ₹ 45,000 and a new van costing ₹ 1,70,000 was purchased on the same date. Show the Van Account from 2016-17 to 2018-19 on the basis of Straight-Line Method, if the rate of Depreciation charged is 10% p.a. Assume that books are closed on 31st March every year.

The solution can be presented as follows

#### **Van Account**

| Dr.    |                      |        |      |          |           |                           |          |      | Cr.      |
|--------|----------------------|--------|------|----------|-----------|---------------------------|----------|------|----------|
| Date   | Particulars          |        | J.F. | ₹.       | Date      | Particulars               |          | J.F. | ₹.       |
| 2016   |                      |        |      |          | 2017      |                           |          |      |          |
|        |                      |        |      |          |           | Ву                        |          |      |          |
| Apr-01 | To Bank A/c          |        |      |          | Mar-31    |                           |          |      | 6,500    |
|        |                      |        |      |          |           | Van I                     |          |      |          |
|        | Van I                |        |      | 65,000   | Mar-31    | By Balance c/d<br>Van l   |          |      | 58,500   |
|        |                      |        |      | 65,000   |           | Valii                     |          |      | 65,000   |
| 2017   |                      |        |      |          | 2018      |                           |          |      |          |
| Apr 01 | To Balance b/d Van I |        |      | 59 500   | Mar-31    | Ву                        |          |      |          |
| Apr-01 |                      |        |      | 36,500   | IVIAI-S I | Depreciation A/c          |          |      |          |
| Oct-01 | To Bank A/c          |        |      |          |           | Vanl                      | 6,500    |      |          |
|        | Van II               |        |      | 70,000   |           | Van II (6 month)          | 3,500    |      | 10,000   |
|        |                      |        |      |          | Mar-31    | By Balance c/d<br>Van l   | 52,000   |      |          |
|        |                      |        |      |          |           | Van                       | 66,500   |      | 1,18,500 |
|        |                      |        |      | 1,28,500 |           |                           |          | 1    | 1,28,500 |
| 2018   |                      |        |      |          | 2018      |                           |          |      |          |
| Apr-01 | To Balance b/d       |        |      |          | Apr-01    | By Bank A/c Van I         |          |      | 45,000   |
|        | Van I                | 52,000 |      |          | Apr-01    | By Profit and Loss<br>A/c |          |      | 7,000    |
|        | Van ∥                | 66,500 |      | 1,18,500 | 2019      |                           |          |      |          |
|        |                      |        |      |          | Mar-31    | By<br>Depreciation A/c    |          |      |          |
| Apr-01 | To Bank A/c          |        |      |          |           | Van II                    | 7,000    |      |          |
|        | Van III              |        |      | 1,70,000 |           | Van III                   | 17,000   |      | 24,000   |
|        |                      |        |      |          | Mar-31    | By Balance c/d            |          | ]    |          |
|        |                      |        |      |          |           | Van II                    | 59,500   |      |          |
|        |                      |        |      |          |           | Van III                   | 1,53,000 |      | 2,12,500 |
|        |                      |        |      | 2,88,500 |           |                           |          |      | 2,88,500 |



## **Working Notes**

1. Depreciation can be calculated as

$$= 6,500$$

$$Van 2 = 70,000 \times 10 / 100$$

$$= 7,000$$

$$Van 3 = 1,70,000 \times 10/100$$

$$= 17,000$$

2. Calculation of profit or loss on sale of Van (I)

| Particulars                 | Amount<br>(₹) |
|-----------------------------|---------------|
| Book Value on Apr. 01, 2018 | 52,000        |
| Less: Sale of Van           | -45,000       |
| Loss on Sale of Van         | 7,000         |

Q.8 On 1st April, 2015, Star Ltd. purchased 5 machines for ₹ 60,000 each. On 1st April, 2017, one of the machines was sold at a loss of ₹ 8,000. On 1st July, 2018, second machine was sold at a loss of ₹ 12,500. A new machine was purchased for ₹ 1,00,000 on 1st October, 2018.

Prepare Machinery Account for 4 years, assuming accounts are closed on 31st March each year and depreciation is charged @ 10% per annum as per Straight Line Method.



## **Machinery Account**

| Date           | Particulars                  | J.F. | Amount<br>(₹) | Date           | Particulars                              | J.F. | Amount<br>(₹)                |
|----------------|------------------------------|------|---------------|----------------|--|------|------------------------------|
| 2015           |                              |      |               | 2016           |  |      |                              |
| Apr-01         | To Bank A/c<br>(60,000×5)    |      |               | Mar-31         | By Depreciation A/c (6,000×5)            |      | 30,000                       |
|                |                              |      | 3,00,000      | Mar-31         | By Balance c/d Van I                     |      | 2,70,000                     |
| 2016           |                              |      | 3,00,000      | 2017           |  |      | 3,00,000                     |
| Apr-01         | To Balance b/d<br>(54,000×5) |      | 2,70,000      |                | By Depreciation A/c                      |      |                              |
|                | (04,000^0)                   |      |               | Mar. 31        | (6,000×5)<br>By Balance c/d              |      | 30,000<br>2,40,000           |
|                |                              |      | 2,70,000      |                | ,  |      | 2,70,000                     |
| 2017<br>Apr-01 | To Balance b/d               |      |               | 2017<br>Apr-01 | By Bank A/c                              |      | 40,000                       |
|                | (48,000×5)                   |      | 2,40,000      | Apr-01         | By Profit and Loss A/c                   |      | 8,000                        |
|                |                              |      |               | 2018           |  |      |                              |
|                |                              |      |               | Mar-31         | By Depreciation A/c                      |      |                              |
|                |                              |      |               |                | Remaining 4 Machines (6,000×4)           |      | 24,000                       |
|                |                              |      | 2,40,000      | 4              | By Balance c/d                           |      | 1,68,000<br><b>2,40,00</b> 0 |
| 2018           | 3                            |      | 2,40,000      | 2018           |  |      | 2,40,000                     |
| Apr-01         | To Balance b/d               |      | 1,68,000      | Jul-01         | By Bank A/c                              |      | 28,000                       |
|                | (42,000×4)                   |      |               | Jul-01         | By Profit and Loss A/c                   |      | 12,500                       |
| Oct-01         | To Bank A/c                  |      | 1,00,000      |                | By Depreciation (Machine Sold)           |      | 1,500                        |
|                |                              |      |               | Mar-31         | By Depreciation A/c                      |      |                              |
|                |                              |      |               |                | Remaining 3 Machines (6,000×3)           |      | 18,000                       |
|                |                              |      |               |                | By Depreciation New Machine- 6<br>Months |      | 5,000                        |
|                |                              |      |               | Mar-31         | By Balance c/d                           |      |                              |
|                |                              |      |               |                | Machine (Old-3)-36,000×3                 |      | 1,08,000                     |
|                |                              |      |               |                | Machine (New-1) 95,000                   |      | 95,000                       |
|                |                              |      | 2,68,000      | 1              |  |      | 2,68,000                     |



#### **Working Notes:**

1) Sale proceeds obtained from Machinery sold on 1st April, 2017

Book Value of Machine on 1st April 2017 = (Total machine opening balance / 5)

Loss on Sale of Machinery = ₹8,000

2) Sale proceeds obtained from Machinery sold on 1st July 2018

Book Value of the Machine = [(Total opening balance of Machinery on this date/4) - Depreciation]

Loss on Sale of Machinery = ₹ 12,500

Sale proceeds from the Machinery = Book Value of the Machine - Loss on Sale

$$= (40,500 - 12,500)$$

Q.9 A company whose accounting year is a financial year, purchased on 1st July, 2015 machinery costing ₹ 30,000. It purchased further machinery on 1st January, 2016 costing ₹ 20,000 and on 1st October, 2016 costing ₹ 10,000. On 1st April, 2017, one-third of the machinery installed on 1st July, 2015 became obsolete and was sold for ₹ 3,000.

Show how Machinery Account would appear in the books of the company. It being given that machinery was depreciated by Fixed Instalment Method at 10% p.a. What would be the value of Machinery Account on 1st April, 2018?

The solution can be presented as follows







#### **Machinery Account**

Dr. Cr. Amount **Amount** J.F. J.F. Date **Particulars** (₹) Date **Particulars** (₹) 2015 2016 Jul-01 To Bank A/c Mar-31 By Depreciation A/c Machinery I 30,000 Machinery I (9 months) 2,250 2016 500 2,750 Machinery II Jan-01 To Bank A/c Mar-31 By Balance c/d Machinery II 20,000 Machinery I 27,750 Machinery II 19,500 47,250 50,000 50,000 2016 2017 Apr-01 To Balance b/d Mar-31 By Depreciation Ac Machinery I 27,750 Machinery I 3,000 2,000 Machinery II 19,500 47,250 Machinery II 500 Machinery III 5,500 Oct-01 To Bank A/c Mar-31 By Balance c/d Machinery III 10,000 Machinery I 24,750 17,500 Machinery II

Machinery III

(1/3<sup>rd</sup> portion)

Machinery II

Machinery III

Machinery II

Machinery III

Mar-31 By Balance c/d

By Bank A/c Machinery I

By Profit and Loss A/c

Machinery I (on 2/3<sup>rd</sup> portion)

Machinery I (on 2/3<sup>rd</sup> portion)

By Depreciation A/c

57,250

2017

Apr-01

Apr-01

2018

51,750 Mar-31

51,750

9,500

2,000

2,000

1,000

14,500

15,500 8,500 51,750

57,250

3,000

5,250

5,000

38,500

51,750



2017

Apr-01

To Balance b/d

24,750

17,500

9,500

Machinery I

Machinery II

Machinery III

## **Working Notes**

1. Calculation of Depreciation

Machine  $1 = 30,000 \times 10 / 100$ 

= 3,000

Depreciation of  $2/3^{rd}$  of the machine =  $3000 \times 2/3$ 

= 2,000

Machine  $2 = 20,000 \times 10/100$ 

= 2,000

Machine  $3 = 10,000 \times 10 / 100$ 

= 1,000

2. Calculation of profit or loss on sale of 1/3rd Portion of Machine I

| Particulars   | Amount (₹) |
|---|------------|
| Book Value of 1/3rd portion of Machine I on April 01, 2017 (24,750 x 1/3) | 8,250      |
| Less: Sale Value  | -3,000     |
| Loss on sale  | 5,250      |



Q.10 On 1st July, 2015, A Co. Ltd. purchases second-hand machinery for ₹ 20,000 and spends ₹ 3,000 on reconditioning and installing it. On 1st January, 2016, the firm purchases new machinery worth ₹ 12,000. On 30th June, 2017, the machinery purchased on 1st January, 2016, was sold for ₹ 8,000 and on 1st July, 2017, a fresh plant was installed.

Payments for this plant was to be made as follows:

1st July, 2017 ₹ 5,000 30th June, 2018 ₹ 6,000 30th June, 2019 ₹ 5,500

Payments in 2018 and 2019 include interest of ₹ 1,000 and ₹ 500 respectively. The company writes off 10% p.a. on the original cost. The accounts are closed every year on 31st March. Show the Machinery Account for the year ended 31st March, 2018.

The solution can be presented as follows



## In the books of A. Co. Ltd Machinery

Dr. Cr.

| Date           | Particulars                   |        | J.F. | Amount<br>(₹) | Date           | Particulars                                   |        | J.F. | Amount<br>(₹)           |
|----------------|-------------------------------|--------|------|---------------|----------------|---|--------|------|-------------------------|
| 2015           |                               |        |      |               | 2016           |   |        |      |                         |
| Jul-01         | To Bank A/c                   |        |      |               | Mar-31         | By Depreciation A/c                           |        |      |                         |
|                | Machinery I<br>(20,000+3,000) |        |      | 23,000        |                | Machinery I (9 months)                        | 1,725  |      |                         |
| 2016           | (20,00010,000)                |        |      |               |                | Machinery II (3 months)                       | 300    |      | 2,025                   |
| Jan-01         | To Bank A/c                   |        |      |               |                | By Balance A/c                                |        |      |                         |
|                | Machinery II                  |        |      | 12,000        |                | Machinery I                                   | 21,275 |      | 20.075                  |
|                |                               |        |      | 35,000        |                | Machinery II                                  | 11,700 |      | 32,975<br><b>35,000</b> |
| 2016           |                               |        |      | 33,000        | 2017           |   |        |      | 33,000                  |
| Apr-01         | To Balance b/d                |        |      |               |                | By Depreciation A/c                           |        |      |                         |
|                | Machinery I                   | 21,275 |      |               |                | Machinery I                                   | 2,300  |      |                         |
|                | Machinery II                  | 11,700 |      | 32,975        |                | Machinery II                                  | 1,200  |      | 3,500                   |
|                |                               |        |      |               | Mar-31         | By Balance A/c                                |        |      |                         |
|                |                               |        |      |               |                | Machinery I                                   | 18,975 |      |                         |
|                |                               |        |      |               |                | Machinery II                                  | 10,500 |      | 29,475                  |
| 0047           |                               |        |      | 32,975        | 4              |   |        |      | 32,975                  |
| 2017<br>Apr-01 | To Balance c/d                |        |      |               | 2017<br>Jun 30 | By Bank A/c                                   |        |      |                         |
| 71ρι 0 ι       | Machinery I                   | 18,975 |      |               | oun oo         | Machinery II                                  |        |      | 8,000                   |
|                | Machinery II                  | 10,500 |      | 29,475        | Jun-30         | By Depreciation A/c                           |        |      | ,                       |
|                |                               |        |      |               |                | Machinery II (3 months)                       |        |      | 300                     |
| Jul-01         | To Bank A/c<br>Machinery III  |        |      | E 000         | Jun-30<br>2018 | By Profit and Loss A/c                        |        |      | 2,200                   |
|                | To Creditors for              |        |      |               | l              |   |        |      |                         |
| Jul-01         | Machinery A/c                 |        |      | 10,000        |                |   |        |      |                         |
|                | (Machinery III)               |        |      |               | Mar-31         | By Depreciation A/c                           |        |      |                         |
|                |                               |        |      |               |                | Machinery I<br>Machinery III (on 15,000 for 8 | 2,300  |      |                         |
|                |                               |        |      |               |                | months)                                       | 1,125  |      | 3,425                   |
|                |                               |        |      |               |                | By Balance c/d                                |        |      |                         |
|                |                               |        |      |               |                | Machinery I                                   | 16,675 |      |                         |
|                |                               |        |      | 44 :=-        |                | Machinery III                                 | 13,875 |      | 30,550                  |
|                |                               |        |      | 44,475        | I              |   |        |      | 44,475                  |



## **Working Notes**

## 1. Calculation of Depreciation

Machine 
$$1 = 23,000 \times 10 / 100$$

Machine 
$$2 = 12,000 \times 10/100$$

Machine 
$$3 = 15,000 \times 10 / 100$$

## 2. Calculation of profit on loss on sale of Machine (II)

| Particulars                                  | Amount (₹) |
|--|------------|
| Book Value of Machine (II) on April 01, 2017 | 10,500     |
| Less: Depreciation for 3 Months              | -300       |
| Book Value on June 30                        | 10,200     |
| Less: Sale                                   | -8,000     |
| Loss on Sale                                 | 2,200      |



Q.11 On 1st April, 2016, Shivam Enterprise purchased a second-hand machinery for ₹ 52,000 and spent ₹ 2,000 on cartage, ₹ 3,000 on unloading, ₹ 2,000 on installation and ₹ 1,000 as brokerage of the middle man. It was estimated that the machinery will have a scrap value of ₹ 6,000 at the end of its useful life, which is 10 years. On 31st December 2016, repairs and renewals amounted to ₹ 2,500 were paid. On 1st October, 2018, this machine was sold for ₹ 30,600 and an amount of ₹ 600 was paid as commission to an agent. Calculate the amount of annual depreciation and rate of depreciation. Also prepare the Machinery Account for first 3 years, assuming that firm follows financial year for accounting.

The solution can be presented as follows

Amount of Depreciation=Cost of Machine -Scrap Value of Machine Life in Years

= (60,000 -6,000) / 10

= 5,400

Rate of Depreciation = Amount of DepreciationCost of Machine×100

= (5,400 / 60,000) / 100

= 9%



# **Machinery Account**

Cr. Dr.

| Date    | Particulars | Amount<br>(₹) | Date    | Particulars                           | Amount<br>(₹) |
|---------|-------------|---------------|---------|---------------------------------------|---------------|
| 2016    |             |               | 2017    |                                       |               |
| Apr. 01 | Bank A/c    | 60,000        | Mar. 31 | Depreciation A/c                      | 5,400         |
|         |             |               | Mar. 31 | Balance c/d                           | 54,600        |
| 2017    |             | 60,000        | 2018    |                                       | 60,000        |
| Apr. 01 | Balance b/d | 54,600        | Mar. 31 | Depreciation A/c                      | 5,400         |
|         |             |               | Mar. 31 | Balance c/d                           | 49,200        |
| 2018    |             | 54,600        | 2019    |                                       | 54,600        |
| Apr. 01 | Balance b/d | 49,200        | Oct. 01 | Depreciation A/c (for 6 months)       | 2,700         |
|         |             |               |         | Bank A/c (Sale)                       | 30,000        |
|         |             |               |         | Profit and Loss A/c<br>(Loss on Sale) | 16,500        |
|         |             | 49,200        |         |                                       | 49,200        |

## Working Notes:

Calculation of Profit or Loss on Sale

| Particulars                            | Amount |
|--|--------|
| Value of Machine as on Apr. 01, 2018   | 49,200 |
| Less: Depreciation for 6 months        | 2,700  |
| Value of Machine 1 as on Oct. 01, 2018 | 46,500 |
| Less: Sale Value                       | 30,000 |
| Loss on Sale                           | 16,500 |
|  |        |







Q.12 Modern Ltd. purchased a machinery on 1st August, 2016 for ₹ 60,000. On 1st October, 2017, it purchased another machine for ₹ 20,000 plus CGST and SGST @ 6% each. On 30th June, 2018, it sold the first machine purchased in 2016 for ₹ 38,500 charging IGST @ 12%. Depreciation is provided @ 20% p.a. on the original cost each year. Accounts are closed on 31st March every year. Prepare the Machinery Account for three years.

The solution can be presented as follows

#### In the book of Modern Ltd. **Machinery Account**

Dr. Cr. Amount Amount **Particulars** J.F. Date **Particulars** J.F. Date (₹) (₹) 2016 2017 60,000 Mar-31 By Depreciation A/c Aug-01 To Bank A/c 8,000 Machinery 1 Machinery 1 (8 months) Mar-31 Balance c/d 52,000 60,000 60,000 2017 2018 52.000 Mar-31 By Depreciation A/c Apr-01 To Balance b/d 20,000 Oct-01 To Bank A/c Machinery 1 12.000 Machinery 2 Machinery 2 (6 Months) 2,000 14.000 Mar-31 By Balance c/d Machinery 1 40.000 Machinery 2 18,000 58,000 72,000 72,000 2018 2018 By Depreciation A/c Machinery Jun-30 Apr-01 To Balance b/d 3000 1 (3 months) Machinery 1 40,000 Jun-30 By Bank A/c Machinery 1 38,500 Machinery 2 18,000 58,000 2019 Mar-31 By Depreciation A/c 4.000 To Profit and Loss Jun-30 1.500 Machinery 2 A/c (profit) Mar-31 By Balance c/d 14,000 59,500 59,500



#### Input CGST A/c

| Dr.    |                  |      |       |        |                |      | Cr.   |
|--------|------------------|------|-------|--------|----------------|------|-------|
| Date   | Particulars      | J.F. | (₹)   | Date   | Particulars    | J.F. | (₹)   |
| 2017   |                  |      |       | 2018   |                |      |       |
| Oct-01 | To Purchases A/c |      | 1,200 | Mar-31 | By Balance c/d |      | 1,200 |
|        |                  |      | 1,200 |        |                |      | 1,200 |

#### Input SGST A/c

| Dr.    |                  |      |       |        |                |      | Cr.   |
|--------|------------------|------|-------|--------|----------------|------|-------|
| Date   | Particulars      | J.F. | (₹)   | Date   | Particulars    | J.F. | (₹)   |
| 2017   |                  |      |       | 2018   |                |      |       |
| Oct-01 | To Purchases A/c |      | 1,200 | Mar-31 | By Balance c/d |      | 1,200 |
|        |                  |      |       |        |                |      |       |
|        |                  |      | 1,200 |        |                |      | 1,200 |

# Output IGST A/c

| Dr.    |                |      |       |        |              |      | Cr.   |
|--------|----------------|------|-------|--------|--------------|------|-------|
| Date   | Particulars    | J.F. | (₹)   | Date   | Particulars  | J.F. | (₹)   |
| 2019   |                |      |       | 2018   |              |      |       |
| Mar-31 | By Balance c/d |      | 4,620 | Jun-30 | To sales A/c |      | 4,620 |
|        |                |      | 4,620 |        |              |      | 4,620 |

## **Working Notes**

1. Calculation of Annual Depreciation

Machine  $1 = (60,000 \times 20) / 100$ 

= 12,000

Machine  $2 = (20,000 \times 20) / 100$ 

= 4,000





#### 2. Calculation of Profit or Loss

| Particulars                  | Amount  |
|------------------------------|---------|
| raiticulais                  | (₹)     |
| Value on Apr 01, 2018        | 40,000  |
| Depreciation for 3 Months    | -3,000  |
| Value on June 30, 2018       | 37,000  |
| Less: Sales Value of Machine | -38,500 |
| Profit on sale of Machine 1  | 1,500   |

Q.13 On 1st July, 2016, Sohan Lal & Sons purchased a plant costing ₹ 60,000. Additional plant was purchased on 1st January, 2017 for ₹ 40,000 and on 1st October, 2017, for ₹ 20,000, *plus* CGST and SGST @ 6% each. On 1st April, 2018, one-third of the plant purchased on 1st July, 2016, was found to have become obsolete and was sold for ₹ 6,000, charging CGST and SGST @ 6% each.

Prepare the Plant Account for the first three years in the books of Sohan Lal & Sons. Depreciation is charged @ 10% p.a. on Straight Line Method. Accounts are closed on 31st March each year.

The solution can be presented as follows



#### In the book of Sohan Lal and Sons Plant Account

Dr. Cr.

|         | 1              |        |      |               |                | 1                                   |                |      | <u> </u>                  |
|---------|----------------|--------|------|---------------|----------------|-------------------------------------|----------------|------|---------------------------|
| Date    | Particulars    |        | J.F. | Amount<br>(₹) | Date           | Particulars                         |                | J.F. | Amount<br>(₹)             |
| 2016    |                |        |      |               | 2017           |                                     |                |      |                           |
| Jul-01  | To Bank A/c    |        |      | 60,000        | Mar-31         | By Depreciation A/c                 |                |      |                           |
|         | Plant I        |        |      |               |                | Plant I (9 months)                  |                |      | 4,500                     |
| 2017    |                |        |      |               |                | Plant II (3 months)                 |                |      | 1,000                     |
| Jan-01  | To Bank A/c    |        |      | 40,000        | Mar-31         | By Balance c/d                      | 55 500         |      |                           |
|         | Plant II       |        |      |               |                |                                     | 55,500         |      | 04.500                    |
|         |                |        |      | 1,00,000      |                | Piant II                            | 39,000         |      | 94,500<br><b>1,00,000</b> |
| 2017    |                |        |      | 1,00,000      | 2018           |                                     |                |      | 1,00,000                  |
| Apr-01  | To Balance b/d |        |      |               | 2016<br>Mar-31 | By Depreciation A/c                 |                |      |                           |
| Api-0 i | Plant I        | 55,500 |      |               | IVIAI-3 I      | Plant I                             | 6,000          |      |                           |
|         | Plant II       | 39,000 |      | 94,500        |                | Plant II                            | 4,000          |      |                           |
| Oct-01  | To Bank A/c    | 00,000 |      | 01,000        |                | Plant III (6 months)                | 1,000          |      | 11,000                    |
|         | Plant III      |        |      | 20,000        | Mar-31         | By Balance c/d                      | .,             |      | ,                         |
|         |                |        |      | ,             |                |                                     | 49,500         |      |                           |
|         |                |        |      |               |                | Plant II                            | 35,000         |      |                           |
|         |                |        |      |               |                | Plant III                           | 19,000         |      | 1,03,500                  |
|         |                |        |      | 1,14,500      |                |                                     |                |      | 1,14,500                  |
| 2018    |                |        |      |               | 2018           |                                     |                |      |                           |
| Apr-01  | To Balance b/d |        |      |               | Apr-01         | By Bank A/c                         |                |      | 6,000                     |
|         | Plant I        | 49,500 |      |               | Apr-01         | By Profit and Loss A/c              |                |      | 10,500                    |
|         | Plant II       | 35,000 |      | 4 00 500      | 2019           | D. D. a. a. a. i. a ti a. a. A. / a |                |      |                           |
|         | Plant III      | 19,000 |      | 1,03,500      | Mar-31         | By Depreciation A/c<br>Plant I      | 4 000          |      |                           |
|         |                |        |      |               |                | Plant II                            | 4,000<br>4,000 |      |                           |
|         |                |        |      |               |                | Plant III                           | 2,000          |      | 10,000                    |
|         |                |        |      |               | Mar-31         | By Balance c/d                      | 2,000          |      | 10,000                    |
|         |                |        |      |               | Widi O I       |                                     | 29,000         |      |                           |
|         |                |        |      |               |                |                                     | 31,000         |      |                           |
|         |                |        |      |               |                |                                     | 17,000         |      | 77,000                    |
|         |                |        |      | 1,03,500      |                |                                     |                |      | 1,03,500                  |

## Input CGST A/c

Dr. Cr.

| Date   | Particulars      | J.F. | (₹)   | Date   | Particulars    | J.F. | (₹)   |
|--------|------------------|------|-------|--------|----------------|------|-------|
| 2017   |                  |      |       | 2018   |                |      |       |
|        |                  |      |       |        |                |      |       |
| Oct-01 | To Purchases A/c |      | 1,200 | Mar-31 | By Balance c/d |      | 1,200 |
|        |                  |      |       |        |                |      |       |
|        |                  |      |       |        |                |      |       |
|        |                  |      | 1,200 |        |                |      | 1,200 |



## Input SGST A/c

| Dr.    |                  |      |       |        |                |      | Cr.   |
|--------|------------------|------|-------|--------|----------------|------|-------|
| Date   | Particulars      | J.F. | (₹)   | Date   | Particulars    | J.F. | (₹)   |
| 2017   |                  |      |       | 2018   |                |      |       |
| Oct-01 | To Purchases A/c |      | 1,200 | Mar-31 | By Balance c/d |      | 1,200 |
|        |                  |      |       |        |                |      |       |
|        |                  |      | 1,200 | ]      |                |      | 1,200 |

# Output CGST A/c

| Dr.    |                |      |     |        |              |      | Cr. |
|--------|----------------|------|-----|--------|--------------|------|-----|
| Date   | Particulars    | J.F. | (₹) | Date   | Particulars  | J.F. | (₹) |
| 2019   |                |      |     | 2018   |              |      |     |
| Mar-31 | By Balance c/d |      | 360 | Apr-01 | To Sales A/c |      | 360 |
|        |                |      | 360 |        |              |      | 360 |

## **Output SGST A/c**

| Dr.   |                |      |     |        |              |      | Cr. |
|-------|----------------|------|-----|--------|--------------|------|-----|
| Date  | Particulars    | J.F. | (₹) | Date   | Particulars  | J.F. | (₹) |
| 2019  |                |      |     | 2018   |              |      |     |
| Mar-3 | By Balance c/d |      | 360 | Apr-01 | To Sales A/c |      | 360 |
|       |                |      | 360 |        |              |      | 360 |

## **Working Notes**

1. Calculation of Depreciation

Plant 1 = 60,000 x 10 / 100 = 6,000

Plant 2 = 40,000 x 10 / 100 = 4,000

Plant  $3 = 20,000 \times 10 / 100 = 2,000$ 



#### 2. Calculation of profit or loss on Sale of Plant I

| Particulars  | Amount<br>(₹) |
|--|---------------|
| 1/3 <sup>rd</sup> of Book Value of Plant I as on April 01, 2018 (49,500 × 1/3) | 16,500        |
| Less: Sale of Plant  | -6,000        |
| Loss on Sale of Plant  | 10,500        |

#### Q.14 Following balances appear in the books of Rama Bros:

1st April, 2016 Machinery A/c 80,000
Provision for Depreciation A/c 36,000

On 1st April, 2016, they decided to sell a machine for ₹ 8,700. This machine was purchased for ₹ 16,000 in April, 2012. Prepare the Provision for Depreciation Account and Machinery Account on 31st March, 2017, assuming the firm has been charging Depreciation at 10% p.a. on Straight Line Method.

The solution can be presented as follows

# In the books of Rama Bros. Machinery Account

| Dr.    |                                  |      |               |        |                                      |      | Cr.           |
|--------|----------------------------------|------|---------------|--------|--------------------------------------|------|---------------|
| Date   | Particulars                      | J.F. | Amount<br>(₹) | Date   | Particulars                          | J.F. | Amount<br>(₹) |
| 2016   |                                  |      |               | 2016   |                                      |      |               |
| Apr-01 | To Balance b/d<br>(64000 +16000) |      | 80,000        | Apr-01 | By Provision for<br>Depreciation A/c |      | 6,400         |
|        |                                  |      |               | Apr-01 | By Bank A/c                          |      | 8,700         |
|        |                                  |      |               | Apr-01 | By Profit and<br>Loss A/c            |      | 900           |
|        |                                  |      |               | 2017   |                                      |      |               |
|        |                                  |      |               | Mar-31 | By Balance c/d                       |      | 64,000        |
|        |                                  |      | 80,000        |        |                                      |      | 80,000        |



## **Provision for Depreciation Account**

Dr. Cr.

| Date   | Particulars  | J.F. | Amount<br>(₹) | Date   | Particulars            | J.F. | Amount<br>(₹) |
|--------|--|------|---------------|--------|------------------------|------|---------------|
| 2016   |  |      |               | 2016   |                        |      |               |
| Apr-01 | To Machinery A/c<br>(Accumulate dep. for<br>Machinery sold ) |      | 6,400         | Apr-01 | By Balance b/d         |      | 36,000        |
| 2017   |  |      |               | 2017   |                        |      |               |
| Mar-31 | To Balance c/d   |      | 36,000        | Mar-31 | By Depreciation<br>A/c |      | 6,400         |
|        |  |      | 42,400        |        |                        |      | 42,400        |

## **Working Notes**

(1) Calculation of Book Value of Machine Sold on April 01, 2016

| Particulars   | Amount (₹) |
|---|------------|
| Machine purchased in 2012   | 16,000     |
| Less: Accumulate Depreciation for 4 years till Mar 31, 2016 (1,600 × 4) | -6,400     |
| Book value on April 01, 2016  | 9,600      |

## (2) Calculation of profit or loss on Sale of Machine

| Particulars                  | Amount (₹) |
|------------------------------|------------|
| Book Value on April 01, 2016 | 9,600      |
| Less: Sale Value             | -8,700     |
| Loss on Sale of Machine      | 900        |







#### Q.15 Following balances appear in the books of Priyank Brothers:

₹

1st April, 2017 Machinery A/c 20,00,000

Provision for Depreciation A/c 8,00,000

On 1st April, 2017, they decide to sell a machine for ₹ 5,00,000. This machine was purchased for ₹ 7,50,000 on 1st April, 2014. Prepare the Machinery Account and Provision for Depreciation Account for the year ended 31st March, 2018 assuming that the firm has been charging Depreciation @ 10% p.a. on the Straight-Line Method.

The solution can be presented as follows

Dr.

## Books of Priyank Brothers Machinery Account

| Date   | Particu<br>lars | J.F. | Amount<br>(₹) | Date   | Particulars                | J.F. | Amount<br>(₹) |
|--------|-----------------|------|---------------|--------|----------------------------|------|---------------|
| 2017   |                 |      |               | 2017   |                            |      |               |
| Apr-01 | Balanc<br>e b/d |      | 20,00,000     | Apr-01 | Provision for Depreciation |      | 2,25,000      |
|        |                 |      |               | Apr-01 | Bank                       |      | 5,00,000      |
|        |                 |      |               | Apr-01 | Profit and Loss (Loss)     |      | 25,000        |
|        |                 |      |               | 2018   |                            |      |               |
|        |                 |      |               | Mar.31 | Balance c/d                |      | 12,50,000     |

20,00,000



Cr.

20,00,000

#### **Provision for Depreciation Account**

| Dr.            |             |      |               |                |                     |      | Cr.           |
|----------------|-------------|------|---------------|----------------|---------------------|------|---------------|
| Date           | Particulars | J.F. | Amount<br>(₹) | Date           | Particulars         | J.F. | Amount<br>(₹) |
| 2017           |             |      |               | 2017           |                     |      |               |
| Apr-01         | Machinery   |      | 2,25,000      | Apr-01         | Balance b/d         |      | 8,00,000      |
| 2018<br>Mar.31 | Balance c/d |      | 7,00,000      | 2018<br>Mar.31 | By Depreciation A/c |      | 1,25,000      |
|                |             |      | 9,25,000      |                |                     |      | 9,25,000      |

## **Working Notes**

1. Calculation of Loss on Sale of Machinery

| Particulars   | Amount<br>(₹) |
|---|---------------|
| Original cost of Machine Sold   | 7,50,000      |
| Less: Accumulated Depreciation on Machine Sold, for 3 years, (7,50,000 × 10% × 3 years) | -2,25,000     |
| Book Value of Machine Sold  | 5,25,000      |
| Less: Sale Value  | -5,00,000     |
| Loss on Sale of Machine   | 25,000        |

Q.16 Following balances appear in the books of X Ltd. as on 1st April, 2018:

Machinery A/c 5,00,000

Provision for Depreciation A/c 2,25,000

The machinery is depreciated @ 10% p.a. on the Fixed Instalment Method. The accounting year being April-March. On 1st October, 2018, a machinery which was purchased on 1st July, 2015 for ₹ 1,00,000 was sold for ₹ 42,000 plus CGST and SGST @ 6% each and on the same date a new machine was purchased for ₹ 2,00,000 paying IGST @ 12%. Prepare Machinery Account and Provision for Depreciation Account for the year ended 31st March, 2019.





The solution can be presented as follows

#### **Machinery Account**

Dr. Cr. Amount Amount Date **Particulars** J.F. **Particulars** J.F. (₹) Date (₹) 2018 2018 To Balance b/d By Provision for (4,00,000 5,00,000 Oct-01 32,500 Apr-01 Depreciation A/c +1,00,000) 42,000 Oct-01 To Bank A/c 2,00,000 Oct-01 By Bank A/c Oct-01 By Profit and Loss A/c 25,500 2019 Mar-31 By Balance c/d 6,00,000 7,00,000 7,00,000

#### Provision for Depreciation A/c Account

| _ | Or.    |                  |      |               |        |                     |      |               |
|---|--------|------------------|------|---------------|--------|---------------------|------|---------------|
|   | Date   | Particulars      | J.F. | Amount<br>(₹) | Date   | Particulars         | J.F. | Amount<br>(₹) |
|   | 2018   |                  |      |               | 2018   |                     |      |               |
|   | Oct-01 | To Machinery A/c |      | 32,500        | Apr-01 | By Balance b/d      |      | 2,25,000      |
|   | 2019   |                  |      |               | 2019   |                     |      |               |
|   | Mar-31 | To Balance c/d   |      | 2,47,500      | Mar-31 | By Depreciation A/c |      | 55,000        |
|   |        |                  |      | 2,80,000      |        |                     |      | 2,80,000      |

#### **Working Notes:**

1. Calculation of Loss on Sale of Machinery







| Particulars   | Amount   |
|---|----------|
| Faiticulais   | (₹)      |
| Original cost of Machine Sold   | 1,00,000 |
| Less: Accumulated Depreciation on Machine Sold, from July 2015 to Oct 01, |          |
| 2018 (1,00,000 × 10% × 3.25 years)  | -32,500  |
| Book Value of Machine Sold  | 67,500   |
| Less: Sale Value  | -42,000  |
| Loss on Sale of Machine   | 25,500   |

# 2. Calculation of Depreciation Charged during the year

| Particulars  | Amount<br>(₹) |
|--|---------------|
| On 4,00,000 @ 10% (4,00,000 × 10%)                     | 40,000        |
| On 2,00,000 @ 10% for 6 months (2,00,000 × 10% × 6/12) | 10,000        |
| On 1,00,000 @ 10% for 6 months (1,00,000 × 10% × 6/12) | 5,000         |
| Total  | 55,000        |

# 3. Journal entries for sale and purchase with GST

#### Journal

| Date   | Particulars   | L.F. | Debit<br>Amount<br>(₹) | Credit<br>Amount<br>(₹) |
|--------|---|------|------------------------|-------------------------|
| 2018   |   |      |                        |                         |
| Oct-01 | Bank A/c Dr.  |      | 47,040                 |                         |
|        | To Machinery A/c                                    |      |                        | 42,000                  |
|        | To Output CGST A/c                                  |      |                        | 2,520                   |
|        | To Output SGST A/c                                  |      |                        | 2,520                   |
|        | (Machinery purchased on 1st July, 2014 sold with C0 |      |                        |                         |
| Oct-01 | Machinery A/c Dr.                                   |      | 2,00,000               |                         |
|        | Input IGST A/c Dr.                                  |      | 24,000                 |                         |
|        | To Bank A/c   |      |                        | 2,24,000                |
|        | (Machinery purchased with IGST @ 12% paid.)         |      |                        |                         |



Q.17 A boiler was purchased from abroad for ₹ 10,000. Shipping and forwarding charges ₹ 2,000, Import duty ₹ 7,000 and expenses of installation amounted to ₹ 1,000.

Calculate the Depreciation for the first three years (separately for each year) @ 10% p.a. on Diminishing Balance Method.

The solution can be presented as follows

#### **Boiler Account**

| Dr       |                                       |     | Doner         | , to oo u i i |              |      | Cr            |
|----------|---------------------------------------|-----|---------------|---------------|--------------|------|---------------|
| Date     |                                       |     | Amount<br>(₹) | Date          | Particulars  | J.F. | Amount<br>(₹) |
| 1st year |                                       |     | 2 2           | 1st year      |              |      |               |
| Jan.01   | Bank (10,000 + 2,000 + 7,000 + 1,000) |     | 20,000        | Dec.31        | Depreciation |      | 2,000         |
|          |                                       |     |               |               | Balance c/d  |      | 18,000        |
|          |                                       |     | 20,000        |               |              |      | 20,000        |
| 2nd year |                                       |     | ·             | 2nd year      |              |      | ·             |
| Jan.01   | Balance b/d                           |     | 18,000        | Dec.31        | Depreciation |      | 1,800         |
|          |                                       |     |               | Dec.31        | Balance c/d  |      | 16,200        |
|          |                                       |     | 18,000        |               |              |      | 18,000        |
| 3rd year |                                       |     | ·             | 3rd year      |              |      |               |
| Jan.01   | Balance b/d                           |     | 16,200        | Dec.31        | Depreciation |      | 1,620         |
|          |                                       |     |               | Dec.31        | Balance c/d  |      | 14,580        |
|          |                                       |     | 16,200        |               |              |      | 16,200        |
| 1        | I                                     | 1 1 |               |               | I            | 1    | 1             |



Q.18 The original cost of furniture amounted to ₹ 4,000 and it is decided to write off 5% on the original cost as Depreciation at the end of each year. Show the Ledger Account as it will appear during the first four years. Show also how the same account will appear if it was decided to write off 5% p.a. on the diminishing balance of the asset each year.

The solution can be presented as follows

# Furniture Account (Original Cost Method)

Dr. Cr.

| Date     | Particulars | J.F. | Amount<br>(₹) | Date     | Particulars  | J.F. | Amount<br>(₹) |
|----------|-------------|------|---------------|----------|--------------|------|---------------|
| lyear    |             |      |               | l year   |              |      |               |
| Jan.01   | Bank        |      | 4,000         | Dec.31   | Depreciation |      | 200           |
|          |             |      |               | Dec.31   | Balance c/d  |      | 3,800         |
|          |             |      | 4,000         |          |              |      | 4,000         |
| ll year  |             |      |               | II year  |              |      |               |
| Jan.01   | Balance b/d |      | 3,800         | Dec.31   | Depreciation |      | 200           |
|          |             |      |               | Dec.31   | Balance c/d  |      | 3,600         |
|          |             |      | 3,800         |          |              |      | 3,800         |
| III year |             |      |               | III year |              |      |               |
| Jan.01   | Balance b/d |      | 3,600         | Dec.31   | Depreciation |      | 200           |
|          |             |      |               | Dec.31   | Balance c/d  |      | 3,400         |
|          |             |      | 3,600         |          |              |      | 3,600         |
| IV year  |             |      |               | IV year  |              |      |               |
| Jan.01   | Balance b/d |      | 3,400         | Dec.31   | Depreciation |      | 200           |
|          |             |      | ,             | Dec.31   | Balance c/d  |      | 3,200         |
|          |             |      | 3,400         |          |              |      | 3,400         |
|          |             |      |               |          |              |      | ,             |



# Furniture Account (Diminishing Balance Method)

Dr. Cr.

| Date     | Particulars | J.F. | Amount<br>(₹) | Date     | Particulars  | J.F. | Amount<br>(₹) |
|----------|-------------|------|---------------|----------|--------------|------|---------------|
| lyear    |             |      |               | l year   |              |      |               |
| Jan.01   | Bank        |      | 4,000         | Dec.31   | Depreciation |      | 200           |
|          |             |      |               | Dec.31   | Balance c/d  |      | 3,800         |
|          |             |      | 4,000         |          |              |      | 4,000         |
| ll year  |             |      |               | Il year  |              |      |               |
| Jan.01   | Balance b/d |      | 3,800         | Dec.31   | Depreciation |      | 190           |
|          |             |      | ·             | Dec.31   | Balance c/d  |      | 3,610         |
|          |             |      | 3,800         |          |              |      | 3,800         |
| III year |             |      |               | III year |              |      |               |
| Jan.01   | Balance b/d |      | 3,610         | Dec.31   | Depreciation |      | 181           |
|          |             |      |               | Dec.31   | Balance c/d  |      | 3,429         |
|          |             |      | 3,610         |          |              |      | 3,610         |
| IV year  |             |      |               | IV year  |              |      |               |
| Jan.01   | Balance b/d |      | 3,429         | -        | Depreciation |      | 171           |
|          |             |      | ,             | Dec.31   | Balance c/d  |      | 3,258         |
|          |             |      | 3,429         |          |              |      | 3,429         |
|          |             |      |               |          |              |      | ·             |

Q.19 Babu purchased on 1st April, 2017, a machine for ₹ 6,000. On 1st October, 2017, he also purchased another machine for ₹ 5,000. On 1st October, 2018, he sold the machine purchased on 1st April, 2017 for ₹ 4,000.

It was decided that Depreciation @ 10% p.a. was to be written off every year under Diminishing Balance Method.

Assuming the accounts were closed on 31st March every year, show the Machinery Account for the years ended 31st March, 2018 and 2019.



#### Books of Babu Machinery Account

Dr. Cr.

| Date    | Particulars | J.F. | Amount<br>(₹) | Date                       | Particulars                        | J.F | Amount<br>(₹) |
|---------|-------------|------|---------------|----------------------------|------------------------------------|-----|---------------|
| 2017    |             |      |               | 2018                       |                                    |     |               |
| Apr. 01 | Bank (I)    |      | 6,000         |                            | Depreciation                       |     |               |
| Oct. 01 | Bank (II)   |      | 5,000         |                            | 1 600                              |     |               |
|         |             |      |               |                            | (for 6 months)                     | 4   | 850           |
|         |             |      |               | Mar. 31                    | Balance c/d                        | J   |               |
|         |             |      |               |                            | I                                  |     | 10,150        |
|         |             |      | 11,000        |                            | 4,730                              | 4   | 11,000        |
| 2018    |             |      | 11,000        | 2018                       |                                    |     | 11,000        |
| Apr. 01 | Balance b/d |      |               | Oct. 01                    | Depreciation (I) (for 6 months)    |     | 270           |
|         | I 5,400     |      |               | Oct. 01                    | Bank (I)                           |     | 4,000         |
|         | Ⅱ 4,750     |      | 10,150        | Oct. 01                    | Profit and Loss (Loss)             |     | 1,130         |
|         |             |      |               | 2019<br>Mar. 31<br>Mar. 31 | Depreciation (II) Balance c/d (II) |     | 475<br>4,275  |
|         |             |      | 10,150        |                            |                                    |     | 10,150        |

# **Working Note**

(1) Calculation of profit or loss on sale of machine:

| Particulars                             | Amount (₹) |
|---|------------|
| Book Value of Machinery Apr. 01, 2018   | 5,400      |
| Less: Depreciation (for 6 Months)       | -270       |
| Book Value of Machinery on Oct. 01 2018 | 5,130      |
| Less: Sale                              | -4,000     |
| Loss on Sale                            | 1,130      |



Q.20 X bought a machine for ₹ 25,000 on which he spent ₹ 5,000 for carriage and freight. ₹ 1,000 for brokerage of the middleman, ₹ 3,500 for installation and ₹ 500 for an iron pad. The machine is depreciated @ 10% p.a. on Written Down Value basis. After three years, the machine was sold to Y for ₹ 30,500 and ₹ 500 was paid as commission to the broker through whom the sale was affected. Find out the profit and loss on sale of machine.

The solution can be presented as follows

## Books of X Machinery Account

| Dr.      |   |      |               |          |                                  |      | Cr.           |
|----------|---|------|---------------|----------|----------------------------------|------|---------------|
| Date     | Particulars                                 | J.F. | Amount<br>(₹) | Date     | Particulars                      | J.F. | Amount<br>(₹) |
| lyear    |   |      |               | l year   |                                  |      |               |
| Jan.01   | Bank (25,000 + 5,000 + 1,000 + 3,500 + 500) |      | 35,000        | Dec.31   | Depreciation                     |      | 3,500         |
|          | ·   |      |               | Dec.31   | Balance c/d                      |      | 31,500        |
|          |   |      | 35,000        |          |                                  |      | 35,000        |
| ll year  |   |      |               | ll year  |                                  |      |               |
| Jan.01   | Balance b/d                                 |      | 31,500        |          | Depreciation                     |      | 3,150         |
|          |   |      |               |          | Balance c/d                      |      | 28,350        |
|          |   |      | 31,500        |          |                                  |      | 31,500        |
| III year |   |      |               | III year |                                  |      |               |
| Jan.01   | Balance b/d                                 |      | 28,350        |          | Depreciation                     |      | 2,835         |
|          |   |      |               |          | Balance c/d                      |      | 25,515        |
|          |   |      | 28,350        |          |                                  |      | 28,350        |
| IV year  |   |      |               | IV year  |                                  |      |               |
| Jan.01   | Balance b/d                                 |      | 25,515        | Jan.01   | Bank (30,500 – 500<br>brokerage) |      | 30,000        |
| Dec.31   | Profit and Loss (Profit)                    |      | 4,485         |          |                                  |      |               |
|          |   |      | 30,000        |          |                                  |      | 30,000        |
| 1        | 1   | 1    |               |          |                                  |      |               |



Q.21 A company purchased a machinery for ₹ 50,000 on 1st October, 2016. Another machinery costing ₹ 10,000 was purchased on 1st December, 2017. On 31st March, 2019, the machinery purchased in 2016 was sold at a loss of ₹ 5,000. The company charges depreciation @ 15% p.a. on Diminishing Balance Method. Accounts are closed on 31st March every year. Prepare the Machinery Account for 3 years.

The solution can be presented as follows

#### **Machinery Account**

| Or.     |                          | 1    |               |          | 1 1                         |      | Cr   |
|---------|--------------------------|------|---------------|----------|-----------------------------|------|--|
| Date    | Particulars              | J.F. | Amount<br>(₹) | Date     | Particulars                 | J.F. | Amount<br>(₹)  |
| 2016    |                          |      | ( ( )         | 2017     |                             |      | ( )  |
| Oct.01  | Bank (I)                 |      | 50,000        | Mar.31   | Depreciation (for 6 Months) |      | 3,750  |
| OG1.0 1 | Barik (i)                |      | 30,000        | Mar.31   | Balance c/d                 |      | 46,250   |
|         |                          |      | 50,000        | IVIAI.51 | Dalarice 6/4                |      | 50,000   |
| 2017    |                          |      | 30,000        | 2010     |                             |      | 30,000   |
| 2017    | D = l = = = =  = /=  / \ |      | 40.050        | 2018     | Diti                        |      |  |
| Apr.01  | Balance b/d (I)          |      | 46,250        | Mar.31   | Depreciation                |      |  |
| Dec.01  | Bank (II)                |      | 10,000        |          | 6,938                       |      | 7.40   |
|         |                          |      |               |          |                             |      | 7,438  |
|         |                          |      |               | Mar.31   | Balance c/d                 |      |  |
|         |                          |      |               |          | I 39,312                    |      |  |
|         |                          |      |               |          | II9,500                     |      | 48,812   |
|         |                          |      | 56,250        |          |                             |      | 56,250   |
| 2018    |                          |      |               | 2019     |                             |      |  |
| Apr.01  | Balance b/d              |      |               | Mar.31   | Depreciation                |      |  |
|         | I 39,31                  | 2    |               |          | I 5,897                     |      |  |
|         | II                       | 0    | 48,812        |          | II1,425                     |      | 7,322  |
|         |                          |      |               | Mar.31   | Bank (I)                    |      | 28,415   |
|         |                          |      |               | Mar.31   | Profit and Loss (Loss)      |      | 5,000  |
|         |                          |      |               | Mar.31   | Balance c/d (II)            |      | 8,075  |
|         |                          |      | 48,812        |          |                             |      | 48,812   |
|         |                          |      | ,             |          |                             |      | , and the second |

#### **Working Note**

Calculation of profit or loss on sale of machine:

| Particulars                              | Amount  |  |  |  |
|--|---------|--|--|--|
| ratuculais                               | (₹)     |  |  |  |
| Book Value of Machine I on Apr. 01, 2018 | 39,312  |  |  |  |
| Less: Depreciation (39,312 × 15%)        | 5,897   |  |  |  |
| Book Value of Machine I on Mar. 31, 2019 | 33,415  |  |  |  |
| Less: Sale Value                         | -28,415 |  |  |  |
| Loss on Sale of Machine I                | 5,000   |  |  |  |





Q.22 On 1st April, 2016, a machinery was purchased for ₹ 20,000. On 1st October, 2017 another machine was purchased for ₹ 10,000 and on 1st April, 2018, one more machine was purchased for ₹ 5,000. The firm depreciates its machinery @ 10% p.a. on the Diminishing Balance Method.

What is the amount of Depreciation for the years ended 31st March, 2017, 2018 and 2019? What will be the balance in Machinery Account as on 31st March, 2019?

The solution can be presented as follows

#### I. Calculation of Depreciation from April 01, 2016 to March 31, 2019

Depreciation Rate: 10% p.a. on Diminishing Balance Method

| Year    | Machinery   | Date of Purchase | Value                       | No. of<br>Months | Amt. of Dep. | Total Dep. |
|---------|-------------|------------------|-----------------------------|------------------|--------------|------------|
| 2016-17 | Machinery 1 | April 01,2016    | 20,000                      | 12               | 2,000        | 2,000      |
| 2017-18 | Machinery 1 | April 01, 2016   | 18,000<br>(20,000<br>2,000) | 12               | 1,800        |            |
|         | Machinery 2 | Oct. 01,2017     | 10,000                      | 6                | 500          | 2,300      |
| 2018-19 | Machinery 1 | April 01, 2016   | 16,200<br>(18,000<br>1,800) | 12               | 1,620        |            |
|         | Machinery 2 | Oct. 01, 2017    | 9,500<br>(10,000<br>500)    | 12               | 950          |            |
|         | Machinery 3 | Apr. 01 2018     | 5,000                       | 12               | 500          | 3,070      |



#### II. Balance in Machinery Account as on March 31, 2019 will be ₹ 27,630

Working Notes: Preparation of Machinery Account

#### **Machinery Account**

Dr. Cr. J.F Date J.F. **Particulars** (₹) Date **Particulars** (₹) 2016 2017 Apr-01 To Bank A/c 20.000 Mar-31 By Depreciation A/c 2,000 Machinery 1 Machinery 1 18,000 Mar-31 By Balance c/d Machinery 1 20,000 20,000 2017 2018 Apr-01 To Bank A/c b/d 18,000 Mar-31 By Depreciation A/c Machinery 1 Machinery 1 1,800 To Bank A/c Oct-01 10,000 500 2300 Machinery 2 Machinery 2  $\left(10,000\times\frac{10}{100}\times\frac{6}{12}\right)$ By Balance c/d 16,200 Machinery 1 Machinery 2 9,500 25,700 28,000 28,000 2018 2019 Apr-01 To Balance b/d Mar-31 By Depreciation A/c Machinery 1 16,200 Machinery 1 1,620 25,700 Machinery 2 9,500 Machinery 2 950 To Bank A/c Apr-01 5,000 3,070 Machinery 3 500 Machinery 3 Mar-31 By Balance c/d Machinery 1 14,580 Machinery 2 8,550 Machinery 3 4,500 27,630 30,700 30,700



Q.23 M/s. P & Q purchased machinery for ₹ 40,000 on 1st October, 2016. Depreciation is provided @ 10% p.a. on the Diminishing Balance. On 31st January, 2019, one-fourth of the machinery was found unsuitable and disposed of for ₹ 5,600. On the same date new machinery at a cost of ₹ 15,000 was purchased. Write up the Machinery account for the years ended 31st March, 2017, 2018 and 2019. Accounts are closed on 31st March each year.

The solution can be presented as follows

#### **Machinery Account**

| Dr.    |                   |        |      |               | wacmner        | y Account  |                  |      | Cr.                      |
|--------|-------------------|--------|------|---------------|----------------|--|------------------|------|--------------------------|
| Date   | Particulars       |        | J.F. | Amount<br>(₹) | Date           | Particulars  |                  | J.F. | Amount<br>(₹)            |
| 2016   | To Bank A/c       |        |      |               | 2017<br>Mar-31 | Dy Doprosistion A/o                                      |                  |      |                          |
| Oct-01 |                   | 20.000 |      |               | IVIAI-3 I      | By Depreciation A/c                                      | 4.500            |      |                          |
|        | Machinery I (3/4) | 30,000 |      |               |                | Machinery I (3/4) (for 6months)                          | 1,500            |      |                          |
|        | Machinery I(1/4)  | 10,000 |      | 40,000        |                | Machinery I (1/4) (for 6 months)                         | 500              |      | 2,000                    |
|        | _                 |        |      |               | Mar-31         | By Balance c/d   |                  |      |                          |
|        |                   |        |      |               |                | Machinery I (3/4)  | 28,500           |      | 20.000                   |
|        |                   |        |      | 40,000        |                | Machinery I (1/4)  | 9,500            |      | 38,000<br><b>40,00</b> 0 |
| 2017   |                   |        |      | ,             | 2018           |  |                  |      | ,                        |
| Apr-01 | To Balance b/d    |        |      |               | Mar-31         | By Depreciation A/c                                      |                  |      |                          |
|        | Machinery I (3/4) | 28,500 |      |               |                | Machinery I (3/4)  | 2,850            |      |                          |
|        | Machinery I(1/4)  | 9,500  |      | 38,000        |                | Machinery I (1/4)  | 9,50             |      | 3,800                    |
|        | _                 |        |      |               | Mar-31         | By Balance c/d<br>Machinery I (3/4)<br>Machinery I (1/4) | 25,650<br>8,550  |      | 34,200                   |
| 2018   |                   |        |      | 38,000        | 2019           |  |                  |      | 38,000                   |
|        | To Balance b/d    |        |      |               | Jan-31         | By Depreciation A/c                                      |                  |      |                          |
|        |                   |        |      |               |                | Machinery I (1/4) (for 10 Months)                        |                  |      | 713                      |
|        | Machinery I (3/4) | 25,650 |      |               | Jan-31         | By Bank A/c Machinery I (1/4)                            |                  |      | 5,600                    |
|        | Machinery I(1/4)  | 8,550  |      | 34,200        |                | By Profit and Loss A/c (Loss)                            |                  |      | 2,237                    |
|        | _                 |        |      |               | Mar-31         | By Depreciation A/c                                      |                  |      |                          |
| Jan-31 | To Bank A/c       |        |      | 15,000        |                | Machinery I (3/4)  | 2,565            |      |                          |
|        |                   |        |      |               |                | Machinery II (for 2 months)                              | 250              |      | 2,815                    |
|        |                   |        |      |               | Mar-31         | By Balance c/d<br>Machinery I (3/4)<br>Machinery II      | 23,085<br>14,750 |      | 37,835                   |
|        |                   |        |      | 49,200        |                | ]  |                  |      | 49,200                   |



#### **Working Note**

1. Calculation of Profit or Loss on Sale of Machine I (1/4):

| Particulars                                      | Amount (₹) |
|--|------------|
| Book Value of Machine (I) (1/4) on Apr. 01, 2018 | 8,550      |
| Less: Depreciation for 10 Months                 | -713       |
| Book Value of Machine (I) (1/4) on Jan. 31 2019  | 7,837      |
| Less: Sale Value                                 | -5,600     |
| Loss on Sale of Machine I (1/4)                  | 2,237      |

Q.24 On 1st October, 2015, Meenal Sharma bought a machine for ₹ 25,000 on which he spent ₹ 5,000 for carriage and freight; ₹ 1,000 for brokerage of the middle-man, ₹ 4,000 for installation. The machine is depreciated @ 10% p.a. on written down value basis. On 31st March, 2018 the machine was sold to Deepa for ₹ 30,500 and ₹ 500 was paid as commission to broker through whom the sales was effected. Find out the profit or loss on sale of machine if accounts are closed on 31st March, every year.

The solution can be presented as follows

#### **Machinery Account**

| Date           | Particulars                          | J.F. | Amount<br>(₹) | Date   | Particulars                 | J.F. | Amount<br>(₹) |
|----------------|--------------------------------------|------|---------------|--------|-----------------------------|------|---------------|
| 2015           |                                      |      |               | 2016   |                             |      |               |
| Oct-01         | Bank (25,000+5,000+1,000+4,000)      |      | 35,000        | Mar.31 | Depreciation (for 6 months) |      | 1,750         |
|                |                                      |      |               | Mar.31 | Balance c/d                 |      | 33,250        |
|                |                                      |      | 35,000        |        |                             |      | 35,000        |
| 2016           |                                      |      |               | 2017   |                             |      |               |
| Apr.01         | Balance b/d                          |      | 33,250        | Mar.31 | Depreciation                |      | 3,325         |
|                |                                      |      |               |        | Balance c/d                 |      | 29,925        |
|                |                                      |      | 33,250        |        |                             |      | 33,250        |
| 2017           |                                      |      |               | 2018   |                             |      |               |
| Apr.01<br>2018 | Balance b/d                          |      | 29,925        | Mar.31 | Depreciation                |      | 2,993         |
| Mar.31         | Profit and Loss A/c (Profit on Sale) |      | 3,068         | Mar.31 | Bank A/c (30,500 – 500)     |      | 30,000        |
|                | ,                                    |      | 32,993        |        |                             |      | 32,993        |



#### **Working Note:**

1. Calculation of Profit or Loss on sale of Machine I:

| Particulars                              | Amount  |
|--|---------|
| Faiticulais                              | (₹)     |
| Book Value of Machine on Apr. 01, 2017   | 29,925  |
| Less: Depreciation for the year          | -2,993  |
| Book Value of Machine I on Mar. 31, 2018 | 26,932  |
| Less: Sale Value (30,500 – 500)          | -30,000 |
| Profit on Sale                           | 3,068   |

Q.25 A company purchased on 1st July, 2015 machinery costing ₹ 30,000. It further purchased machinery on 1st January, 2016 costing ₹ 20,000 and on 1st October, 2016 costing ₹ 10,000. On 1st April, 2017, one-third of the machinery installed on 1st July, 2015 became obsolete and was sold for ₹ 3,000. The company follows financial year as accounting year.

Show how the Machinery Account would appear in the books of company if depreciation is charged @ 10% p.a. on Written Down Value Method.



## **Machinery Account**

| Dr.            |  |                 | _   |                  |                 |   |                              |     | Cr.                     |
|----------------|--|-----------------|-----|------------------|-----------------|---|------------------------------|-----|-------------------------|
| Date           | Particulars  |                 | J.F | Amount<br>(₹)    | Date            | Particulars                                   |                              | J.F | Amount<br>(₹)           |
| 2015           | T- D-ula A /- Mline - 1/2/2                            | 20.000          |     |                  | 2016            | D. D. D. and a single of A /a                 |                              |     |                         |
| Jul-01         | To Bank A/c Machinery I(2/3)                           | 20,000          |     |                  | Mar-31          | By Depreciation A/c                           |                              |     |                         |
| Jul-01         | To Bank A/c Machinery I(1/3)                           | 10,000          |     | 30,000           |                 | Machinery I (2/3)( 9 months) 1                | ,500                         |     |                         |
| 2016<br>Jan-01 | To Bank A/c Machinery II                               |                 |     | 20,000           | Mar-31          |   | 750<br>500<br>,500<br>,250   |     | 2,750                   |
|                |  |                 |     |                  |                 | Machinery II 19                               | ,500                         |     | 47,250                  |
|                |  |                 |     | 50,000           |                 |   |                              |     | 50,000                  |
| 2016<br>Apr-01 | To Balance b/d<br>Machinery I(2/3)<br>Machinery I(1/3) | 18,500<br>9,250 |     | 47.050           | 2017            |   |                              |     |                         |
| Oct-01         | Machinery II<br>To Bank A/c Machinery III              | 19,500          |     | 47,250<br>10,000 |                 | Machinery I(1/3) Machinery II 1 Machinery III | ,850<br>925<br>,950<br>500   |     | 5,225                   |
|                |  |                 |     | 57,250           | Mar-31          | Machinery I(1/3) 8<br>Machinery II 17         | ,650<br>,325<br>,550<br>,500 |     | 52,025<br><b>57,250</b> |
| 2016           |  |                 |     | ,                | 2017            |   |                              |     | ,                       |
| Apr-01         | To Balance b/d   |                 |     |                  | Apr-01          | By Bank A/c Machinery I                       |                              |     | 3,000                   |
|                | Machinery I(2/3)<br>Machinery I(1/3)                   | 16,650<br>8,325 |     |                  | Apr 0 1<br>2018 | (1/3)<br>By Profit and Loss A/c               |                              |     | 5,325                   |
|                | Machinery II<br>Machinery III                          | 17,550<br>9,500 |     | 52,025           |                 | Machinery II 1                                | ,665<br>,755<br>950          |     | 4,370                   |
|                |  |                 |     |                  |                 | Machinery II 15                               | ,985<br>,795                 |     |                         |
|                |  |                 |     |                  | Mar-31          | Machinery III8                                | ,550                         |     | 39,330                  |
|                |  |                 |     | 52,025           |                 |   |                              |     | 52,025                  |

#### **Working Note:**

1. Calculation of Profit or Loss on Sale of Plant I (1/3):

| Particulars                                    | Amount (₹) |
|--|------------|
| Book Value of Plant I (1/3) as on Apr 01, 2017 | 8,325      |
| Less: Sale Value                               | -3,000     |
| Loss on Sale                                   | 5,325      |

Q.26 Astha Engineering Works purchased a machine on 1st July, 2015 for ₹ 1,80,000 and spent ₹ 20,000 on its installation.

On 1st April, 2016, if purchased another machine for ₹ 2,40,000. On 1st October, 2017, the machine purchased on 1st July, 2015 was sold for ₹ 1,45,000 *plus* CGST and SGST @ 6% each. On 1st January, 2018, another machine was purchased for ₹ 4,00,000 *plus* IGST @ 12%.

Prepare the Machinery Account for the years ended 31st March, 2016 to 2018 after charging Depreciation @ 10% p.a. by Diminishing Balance Method. Accounts are closed on 31st March every year.



#### **Machinery Account**

| Dr.              |  |   |     |                             |          |   |              | Cr.                         |
|------------------|--|---|-----|-----------------------------|----------|---|--------------|-----------------------------|
| Date             | Particulars  |   | J.F | Amount<br>(₹)               | Date     | Particulars                                   | J.I          | Amount<br>(₹)               |
| 2015-16          |  |   |     |                             | 2015-16  |   |              |                             |
| July 01          | To Balance b/d (1,80,000 + 20,000)                     |   |     |                             | Mar. 31  | By Depreciation A/c (9 months) Machinery I    |              | 15,000                      |
|                  | Machinery I  |   |     | 2,00,000<br><b>2,00,000</b> | Mar. 31  | By Balance c/d                                |              | 1,85,000<br><b>2,00,000</b> |
| 2016-17          |  |   |     |                             | 2016-17  |   |              |                             |
| Apr-01<br>Apr-01 | To Balance b/d Machinery I<br>To Bank A/c Machinery II |   |     | 1,85,000<br>2,40,000        | Mar-31   | ,   | ,500<br>,000 | 42,500                      |
|                  |  |   |     |                             | Mar-31   | By Balance c/d                                | 500          | 42,300                      |
|                  |  |   |     | 4,25,000                    |          | Machinery II 2,16                             |              | 3,82,500<br><b>4,25,000</b> |
| 2017-18          |  |   |     |                             | 2017-18  |   |              |                             |
| Apr-01           | To Balance b/d   |   |     |                             | Oct-01   | By Depreciation A/c<br>Machinery I (6 months) |              | 8,325                       |
|                  | Machinery I<br>Machinery II                            | 1,66,500<br>2,16,000                    |     | 3,82,500                    | Oct-01   | By Bank A/c<br>Machinery I                    |              | 1,45,000                    |
|                  | •  | , | 1   |                             | Oct-01   | By Profit and Loss A/c                        |              | 13,175                      |
| Jan-01           | To Bank A/c<br>Machinery III                           |   |     | 4,00,000                    | Mar-31   | By Depreciation A/c Machinery II 21           | ,600         |                             |
|                  |  |   |     |                             | Mar-31   | Machinery III (3 months)10 By Balance c/d     | ,000         | 31,600                      |
|                  |  |   |     |                             | .viai oi | Machinery II 1,94                             | ,400         | 5.04.400                    |
|                  |  |   |     | 7,82,500                    |          | Machinery III 3,90                            | ,000         | 5,84,400<br><b>7,82,500</b> |

## **Working Note:**

1. Calculation of profit or loss on sale of Machine I:

| Particulars                       | Amount (₹) |
|-----------------------------------|------------|
| Book Value of as on Apr. 01, 2017 | 1,66,500   |
| Less: Depreciation (for 6 Months) | -8,325     |
| Book Value on Oct 01, 2017        | 1,58,175   |
| Less: Sale Value                  | -1,45,000  |
| Loss on Sale                      | 13,175     |





#### 2. Journal entry for purchase with GST

Journal

| Date              | Particulars   | L.F. | Debit<br>Amount<br>(₹) | Credit<br>Amount<br>(₹) |
|-------------------|---|------|------------------------|-------------------------|
| 2018<br>Jan<br>01 | Machinery A/c Dr Input IGST A/c Dr To Bank A/c (Machinery purchased with IGST @ 12% paid) |      | 4,00,000<br>48,000     | 4,48,000                |

## Q.27 Following balances appear in the books of M/s. Amrit as on 1st April, 2018:

2018
1st April Machinery A/c 60,000
Provision for Depreciation
A/c 36,000

On 1st April, 2018, they decided to dispose of a machinery for ₹ 8,400 which was purchased on 1st April, 2014 for ₹ 16,000.

You are required to prepare the Machinery Account, Provision for Depreciation Account and Machinery Disposal Account for the year ended 31st March, 2019. Depreciation was charged at 10% p.a on Cost following Straight Line Method.



# Books of M/s. Amrit Machinery Account

| Dr.    |                                  |      |               |                |                    |      | Cr.              |
|--------|----------------------------------|------|---------------|----------------|--------------------|------|------------------|
| Date   | Particulars                      | J.F. | Amount<br>(₹) | Date           | Particulars        | J.F. | Amoun<br>(₹)     |
| 2018   |                                  |      |               | 2018           |                    |      |                  |
| Apr-01 | Balance b/d (44,000<br>+ 16,000) |      | 60,000        | Apr-01         | Machinery Disposal |      | 16,000           |
|        |                                  |      | 60,000        | 2019<br>Mar.31 | Balance c/d        |      | 44,000<br>60,000 |

## **Provision for Depreciation Account**

| Dr.    |                                     |      |               |        |   |      | Cr.           |
|--------|-------------------------------------|------|---------------|--------|---|------|---------------|
| Date   | Particulars                         | J.F. | Amount<br>(₹) | Date   | Particulars                                     | J.F. | Amount<br>(₹) |
| 2018   |                                     |      |               | 2018   |   |      |               |
| Apr-01 | To Machinery Disposal A/c (4 years) |      | 6,400         | Apr-01 | By Balance b/d                                  |      | 36,000        |
| 2019   | (Tyouro)                            |      |               | 2019   |   |      |               |
| Mar-13 | To Balance c/d                      |      | 34,000        | Mar-31 | By Depreciation A/c (Machine costing Rs.44,000) |      | 4,400         |
|        |                                     |      | 40,400        |        |   |      | 40,400        |

#### **Machinery Disposal Account**

| <u>Dr.</u>     |                  |      |               |      |   |      | <u>Cr.</u>             |
|----------------|------------------|------|---------------|------|---|------|------------------------|
| Date           | Particulars      | J.F. | Amount<br>(₹) | Date | Particulars   | J.F. | Amount<br>(₹)          |
| 2018<br>Apr-01 | To Machinery A/c |      | 16,000        | 2019 | By Provision for<br>Depreciation A/c<br>By Bank A/c |      | 6,400<br>8,400         |
|                |                  |      | 16,000        |      | By Profit and Loss A/c                              |      | 1,200<br><b>16,000</b> |





#### **Working Note**

1. Calculation of profit or loss on Machine Sold:

| Particulars  | Amount<br>(₹) |
|--|---------------|
| Original Cost of Machine Sold on April 01, 2014            | 16,000        |
| Less: Accumulated Depreciation on Machine Sold (1,600 × 4) | -6,400        |
| Book Value of April 01, 2018                               | 9,600         |
| Less: Sale Value   | -8,400        |
| Loss on Sale   | 1,200         |

Q.28 On 1st October, 2011, *X* Ltd. purchased a machinery for ₹ 2,50,000. A part of machinery which was purchased for ₹ 20,000 on 1st October, 2011 became obsolete and was disposed of on 1st January, 2014 (having a book value ₹ 17,100 on 1st April, 2013) for ₹ 2,000. Depreciation is charged @ 10% annually on written down value. Prepare Machinery Disposal Account and also show your workings. The books being closed on 31st March of every year.



#### **Machinery Account**

| Dr.            |  |                    |      |               |        |  |                    |      | Cr                                     |
|----------------|--|--------------------|------|---------------|--------|--|--------------------|------|--|
| Date           | Particulars  |                    | J.F. | Amount<br>(₹) | Date   | Particulars  |                    | J.F. | Amoun<br>(₹)                           |
| 2011           |  |                    |      |               | 2012   |  |                    |      |  |
| Oct-01         | To Bank A/c  |                    |      |               | Mar-31 | By Depreciation A/c  |                    |      |  |
|                | Machinery I (part 1)   | 2,30,000           |      |               |        | Machinery I (part 1) ( 6 months)   | 11,500             |      |  |
|                | Machinery I (part 2)   | 20,000             |      | 2,50,000      |        | Machinery I (part 2) (6 months)  | 1,000              |      | 12,500                                 |
|                |  |                    |      | 2,50,000      | Mar-31 | By Balance c/d<br>Machinery I (part 1)<br>Machinery I (part 2)               | 2,18,500<br>19,000 |      | 2,37,500<br><b>2,50,00</b> 0           |
| 2012<br>Apr-01 | To Balance b/d<br>Machinery I (part 1)<br>Machinery I (part 2) | 2,18,500<br>19,000 |      | 2,37,500      |        | By Depreciation A/c Machinery I (part 1) Machinery I (part 2) By Balance c/d | 21,850<br>1,900    |      | 23,750                                 |
| 2013           |  |                    |      | 2,37,500      | 2014   | Machinery I (part 1) Machinery I (part 2)                                    | 1,96,650<br>17,100 |      | 2,13,75<br><b>2,37,50</b>              |
|                | To Balance b/d   |                    |      |               | 1      | By Depreciation A/c  |                    |      |  |
|                | Machinery I (part 1)   | 1,96,650           |      |               |        | Machinery I (part 2) (9 months)  |                    |      | 1,283                                  |
|                | Machinery I (part 2)   | 17,100             |      | 2,13,750      | Jan-01 | By Bank A/c Machinery I (part 2)   |                    |      | 2,000                                  |
|                |  |                    |      |               | Jan-01 | By Profit and Loss A/c (Loss)  |                    |      | 13,817                                 |
|                |  |                    |      |               | Mar-31 | By Depreciation A/c  |                    |      |  |
|                |  |                    |      | 2,13,750      |        | Machinery I (part 1)<br>By Balance c/d                                       |                    |      | 19,665<br>1,76,985<br><b>2,13,75</b> 0 |

Q.29 Sharma & Co. whose books are closed on 31st March, purchased a machinery for ₹ 1,50,000 on 1st April, 2016, Additional machinery was acquired for ₹ 50,000 on 1st October, 2016. Certain machinery which was purchased for ₹ 50,000 on 1st October, 2016 was sold for ₹ 40,000 on 30th September, 2018.

Prepare the Machinery Account and Accumulated Depreciation Account for all the years up to the year ended 31st March, 2019. Depreciation is charged @ 10% p.a. on Straight Line Method. Also, show the Machinery Disposal Account.







The solution can be presented as follows

# In the books of Sharma andCo. Machinery Account

Dr. Cr. **Amount Amount** J.F. J.F. Date **Particulars Particulars** (₹) Date (₹) 2016 2017 Apr-01 To Bank A/c Machinery I 1,50,000 Mar-31 By Balance c/d 2,00,000 Oct-01 To Bank A/c Machinery II 50,000 2,00,000 2,00,000 2018 2018 By Machinery Disposal Apr-01 To Balance b/d 2,00,000 Sep-30 50,000 Machinery II 2018 Mar-31 By Balance c/d 1,50,000 2,00,000 2,00,000



## **Accumulate Deprecation Account**

| Dr.            |   |                 |     |               | -                      |   |                 |     | Cr.                     |
|----------------|---|-----------------|-----|---------------|------------------------|---|-----------------|-----|-------------------------|
| Date           | Particulars                                   |                 | J.F | Amount<br>(₹) | Date                   | Particulars                                   |                 | J.F | Amount<br>(₹)           |
| 2017           |   |                 |     |               | 2017                   |   |                 |     |                         |
| Mar-31         | To Balance c/d                                |                 |     |               | Mar-31                 | By Depreciation A/c                           |                 |     |                         |
|                | Machinery I                                   | 15,000          |     |               |                        | Machinery I                                   | 15,000          |     |                         |
|                | Machinery II                                  | 2,500           |     | 17,500        |                        | Machinery II (for 6 months)                   | 2,500           |     | 17,500                  |
|                |   |                 |     | 17,500        |                        |   | -               | 1   | 17,500                  |
| 2018<br>Mar-31 | To Balance c/d<br>Machinery I<br>Machinery II | 30,000<br>7,500 |     | 37,500        | 2017<br>Apr-01<br>2018 | By Balance b/d<br>Machinery I<br>Machinery II | 15,000<br>2,500 |     | 17,500                  |
|                |   |                 |     |               | Mar-31                 | By Depreciation A/c                           |                 |     |                         |
|                |   |                 |     | 37,500        |                        | Machinery I<br>Machinery II                   | 15,000<br>5,000 |     | 20,000<br><b>37,500</b> |
| 2018           |   |                 |     |               | 2018                   |   |                 |     | ,                       |
| Sep-30         | To Machinery<br>disposal A/c                  |                 |     | 10,000        | Apr-01                 | By Balance b/d                                |                 |     |                         |
| 2019<br>Mar-31 | To Balance c/d                                |                 |     | 45,000        |                        | Machinery I<br>Machinery II                   | 30,000<br>7,500 |     | 37,500                  |
|                |   |                 |     |               | Sep-30                 | By Depreciation A/c                           |                 |     |                         |
|                |   |                 |     |               | 2019                   | Machinery II                                  |                 |     | 2,500                   |
|                |   |                 |     |               | Mar-31                 | By Deprecation A/c                            |                 |     |                         |
|                |   |                 |     | 55.000        |                        | Machinery I                                   |                 |     | 15,000                  |
|                |   |                 |     | 55,000        |                        |   |                 |     | 55,000                  |

# **Machinery Disposal Account**

| Dr.    |             |     |               |        |                          |      | Cr.           |
|--------|-------------|-----|---------------|--------|--------------------------|------|---------------|
| Date   | Particulars | J.F | Amount<br>(₹) | Date   | Particulars              | J.F. | Amount<br>(₹) |
| 2018   |             |     |               | 2018   |                          |      |               |
| Sep-30 | Machinery   |     | 50,000        | Sep-30 | Accumulated Depreciation |      | 10,000        |
|        |             |     |               | Sep-30 | Bank                     |      | 40,000        |
|        |             |     | 50,000        |        |                          |      | 50,000        |
|        |             |     |               |        |                          |      |               |



# **Working notes**

1. Calculation of Profit or Loss on sale of Machine II:

| Particulars                    | Amount (₹) |
|--------------------------------|------------|
| Original Cost Oct 01, 2016     | 50,000     |
| Less: Accumulated Depreciation | -10,000    |
| Book Value on Sept 30, 2018    | 40,000     |
| Less: Sale Value               | -40,000    |
| Profit / Loss                  | None (Nil) |

