Chapter 5

Depreciation

CHAPTER OVERVIEW

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(1)	(2)	(3)
Basic	Methods of Depreciation	Related Matters
1. Assets eligible for Depr	1. Straight Line Method	1. Change in Method of Depreciation
2. Depreciation	(SLM)	2. Review and Revision in Useful Life and
3. Purposes of Depreciation	2. Written Down value	Method of Depreciation
4. Depreciation vs fluctuation	(WDV) Method	3. Revaluation of Assets
5. Depreciable Amount	3. Sum of Digits Method	4. Profit/Loss on Sale/Disposal of Fixed
6. Cost of Asset	4. Machine Hour Method	Assets
7. Factors for Depreciation	5. Production Units Method	5. Provision for Repairs and Renewals
8. Quantum of Depreciation	6. Depletion Method	
9. Component wise Charge		

1. Basic Terms

1.1 Assets eligible for Depreciation

As per	1. Tangible Items that are held for –		
A/cing	(a) use in the production or supply of goods services,		
Standard- 10,	(b) Rental to others, or and		
Property,	(c) Administrative Purposes,		
Plant	2. Tangible Items that are expected to be used more that 12 Months.		
And Equipment	Note: Items such as Spare Parts, Stand-By & Servicing Equipment are treated as PPE , if they meet the definition above. Otherwise, they are treated as Inventory.		
(PPE) are -			

Note : PPE is referred to as Fixed Assets in common parlance.

1.2 Depreciation

1. **Meaning:** It is the systematic allocation of the Depreciable Amount of an Asset over its Useful Life. So, depreciation is

A Measure of -	Arising from-			
(a) Natural wear and tear,	(a) use,			
(b) Consumption, or	(b) Effluxion of time, or			
(c) Other loss of value of Depreciable Asset.	(c) Obsolescence through technology & market			
	changes.			

2. Effect: Depreciation refers to a reduction / loss in the utility of a Depreciable Asset.

FOR CLASSES & INFORMATION

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- 3. Nature: Depreciation is a non-cash expenditure (i.e. it does not result in any cash outflow).
- 4. **Depreciation vs Amortisation**: Depreciation includes amortization of assets whose useful life is predetermined. [Note : The term "**Depreciation**" is used in respect of **Tangible Fixed Assets**, and the term "**Amortisation**" is used in respect of **Intangible Assets** like Patents, Copyrights, etc.]
- 5. Types: Depreciation may be classified as under -

Туре	Internal Depreciation	External Depreciation
Loss in utility or value due to	Natural Wear and Tear	Accident or Obsolescence

1.3 Purpose of Depreciation

Purposes: The main purposes of providing depreciation are -

- 1. To keep intact, the capital invested in Fixed Assets: This purpose is achieved by retailing in the business, the amount of depreciation charged in the Profit and Loss Account.
- 2. To ascertain true cost of production: The depletion of asset value due to usage should be charged in the accounts for determination of the true Cost of Production. This is done by charging depreciation.
- 3. To determine profit or loss for the year: Profits can be properly ascertained only after writing off the expense represented by the loss in value of Fixed Assets arising on their use.
- 4. To present a true and fair value of Firm's assets in the Balance Sheet on a going concern basis Original Cost of assets decreases due to many factors and hence assets cannot be presented at their original costs. The amount of accumulated depreciation is deducted from there to reflect in the Balance sheet, a true and fair value of the Fixed Assets.
- 5. To provide fund for replacement of the Fixed Assets: As the amount of depreciation charged in the P & L A/c is retained in the business (and not distributed as dividend), it goes in accumulating and eventually provides funds for replacement of Fixed Assets when their useful life is over.

1.5 Depreciable Amount

'Depreciable Amount'is determined as under -

Particulars	
Cost of an Asset, or other Amount substituted for Cost in the Financial Statements	XXX
Less : Estimated Residual Value	XX
Depreciable Amount	XXXX

Example: An item of Machinery was purchased by Anu Ltd for Rs. 18 Lakhs. It can be sold for Rs. 13.50 Lakhs currently, or for Rs. 2 Lakhs after 8 years, which is the useful life of the asset. The Depreciable Amount of the machinery will be Rs. 18 Lakhs – Rs. 2 Lakhs = Rs. 16 Lakhs. The current sale price is irrelevant.

1.6 Cost of Asset (PPE)

Principles relating to cost of an Asset (PPE) are given below -

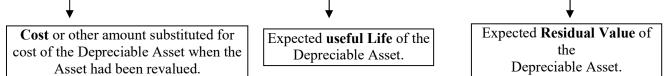
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		Descention of Interact in the Communication				
A mount of a set -1 obstructed item of 1 - Borrowing Costs						
Amount of a self – Constructed Item of Borrowing Costs PPE			Dollowing Cosis			

Note : Internal Profits, Cost of abnormal Amounts of Wasted Material, Labour, etc. are excluded in recognizing cost of self-constructed assets.

1.7 Factors for Depreciation

(Nov.2020, 5 Marks)

Assessment of depreciation and the amount of depreciation are usually based on the following three factors –



These factors are explained as follows –

- 1. Cost : Refer Previous Para
- 2. 'Useful Life' is either
 - (a) Period over which a depreciable asset is expected to be used by the Enterprise, or
 - (b) Number of production or similar units expected to be obtained from the use of the asset by the Enterprise.

Situation	Useful Life
Ajay Ltd has purchased a new machinery for Rs. 5,00,000. The Company expects	Useful Life
to use the	= Five years
Asset for a period of five years.	
Vijay Ltd has acquired a machinery for Rs. 8,00,000. The machine is usable for	Useful Life
the production	= 32,00,000
of a special product only upto 32,00,000 units. The company plans to achieve this	units
total	
production over a period of ten or twelve years.	

Note :

- Useful Life is always **shorter** than the physical life of an asset.
- Determination of the Useful Life of a depreciable asset is a matter of estimation and is normally based on various factors including experience with similar types of assets.
- 3. **Residual Value** is the amount likely to be obtained by the disposal of the Fixed Asset at the end of its Useful Life. The following points are to be noted in this regard
 - (a) If Residual Value of an asset is insignificant, it is normally regarded as Nil.
 - (b) If Residual Value is significant, it is estimated either (i) at the time of acquisition/installation, or (ii) at the time of subsequent revaluation of the asset.
 - (c) Residual Value is estimated on the basis of Realisable Value of similar assets, which have reached the end of their useful lives and have operated under conditions similar to those in which the asset will be used.

1.9 Component – wise Computation of Depreciation

Companies Act, as well as Accounting Standard – 10 on Property, Plant and Equipment (PE) requires Depreciation to be charged on a component-wise basis, explained as under –

- 1. **Basic Principle** : Each part of an item of PPE with a cost that is significant in relation to the total cost of the item should be depreciated separately.
- 2. Treatment of Parts :

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Part of Item of PPE	Calculation of Depreciation
Part with a cost, significant in relation to Total Cost of The PE item. Example: airframe & Engines of an Aircraft, whether owned/subject to lease	Amount initially recognized in respect of such Item is allocated to the significant parts & depreciated separately.
Two significant Parts of a PPE item, having the same useful life and Depreciation Method.	Such Parts may be grouped in determining the Depreciation charge.
Significant Parts of a PPE are depreciated separately, and the Remainder consisting of the Parts that are individually insignificant.	Approximation Techniques that faithfully represents its consumption pattern and/or useful life, may be used.
Parts of PPE that do not have a significant cost in relation to the Total Cost of the PPE	These may be depreciated separately, if the enterprise chooses so.
Separable Assets (i.e. Land & Buildings) in which Buildings have a limited useful life and land has n unlimited useful life	Accounted separately, even if they are acquired together.
and fand has if unifilitied useful file	Land: not Depreciated.
	Buildings : Depreciated. [Note : Increase in value of the Land on which a Building stands does not affect the determination of the Depreciable Amount of the Building.]
In case Land itself having limited useful life, e.g. Quarries and Sites used for landfill	It is depreciated in a manner that reflects the benefits to be derived from it.
Cost of Land includes the costs of site Dismantlement, Removal and Restoration	That portion of Land Asset is depreciated over the period of benefits obtained by incurring those costs.

2. Methods of computing Depreciation

2.1 Methods for Depreciation

- 1. **Methods Available :** The following methods are available for computing and allocating the depreciable amount of an asset over its useful life
 - (a) Straight Line Method or Fixed Instalment Method,
 - (b) Reducing Balance Method or written down value (WDV) Method,
 - (c) Sum of Year Digits Method
 - (d) Machine Hour Method
 - (e) Production Units Method,
 - (f) Depletion Method

Note: Of the above, the first 2 methods viz. Straight Line and Reducing Balance Method are widely used.

2. Selection of method : The choice of a method is based on -

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- (a) The type of assets,
- (b) Nature of its use, and
- (c) Circumstances prevailing in the business.

Note :

- Depreciable Assets not having any material value are fully depreciated in the year in which they • are acquired.
- The Income Tax Rules prescribe the WDV method (i.e. Reducing Balance method), except in the • case of an undertaking engaged in generation and distribution of power.

2.2 Straight Line Method (SLM) or Fixed Instalment Method.

1. Meaning	(a) Under this method, an equal or constant amount of depreciation is written off from the Depreciable						
	Asset, every year.						
	(b) At the end of the	useful life of the asset, the cost of	the asset will be NIL or equal to its Residual				
	Value/Scrap Value.						
2. Formula	Straight Line (Cost Less Residual Value) SLM Depreciation *						
	Depreciation = Useful Life SLM Deprn Rate = Cost of Asset						
	1		100				
3. Merits	(a) Easy to understand,	simple to use, and gives accurate re-	esults in most cases.				
4. Demerits	(a) As the life of the asset increase, its maintenance cost also increases. So, total expenditure to P & L						
	A/c, i.e. Depreciation + Maintenance, will not be uniform in all years.						
	(b) Value of the asset may be extinguished, whereas the asset may be physically available.						
5. Example	Arvind Ltd. Purchased a machine costing Rs. 75 Lakhs, having a useful life of 7 years. Its estimated						
	Residual value is Rs. 5 Laksh.						
	• Depreciation under Straight Line Method = $(75 - 5) \div 7 = \text{Rs.}$ 10 Lakhs per annum.						
	• SLM Depreciation Rate = $10 \div 75 = 13.33\%$						

2.3 Reducing Balance Method or Written Down Value (WDV) Method

1. Meaning	(a)	Depreciation Amount for each year is computed by applying a fixed percentage on
		the Opening Balance of the Asset (i.e. Diminishing Balance of the Asset.)
	(b)	Reducing Balance refers to the Written Down value of the Asset, i.e. value of the
		asset as reduced by the depreciation upto the previous year.
	(c)	Depreciation Rate is computed such that at the end of the useful life of the asset,
		the cost of the asset will be equal to its Residual value / Scrap value / Break - up
		value.

2. Formula	WDV Depreciation Rate = $1 - n \sqrt{\frac{\text{Residual, value}}{\text{Cost.Asset}}}$, where n = Useful Life.			
3. Merits	(a) Annual Charge of depreciation reduces from year to years, such that the total expenditure to P & L A/c, i.e. Depreciation + Maintenance, will be uniform in all years.			
	(b) The value of the asset will never be extinguished, as it happens in SLM Method.			
	(c) Simple to use, and most suited for plant, Machinery, Fixtures, etc.			
4. Demerits	(a) There is a danger that depreciation rate may be taken too low, in which case, the full depreciation may not be provided within the useful life of the asset.			
	(b) If similar assets are grouped (i.e. called Block of Assets) and depreciation rate is applied on the			
	WDV of the entire Block, there is a possibility that the residue (balance) of the asset may lie in the			
	Asset Block A/c even after the asset has been scrapped. [Note : This difficulty can be overcome by			
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 maintaining an asset – wise Plane & Depreciation Register.]Total of all digits of the life of the asset (in years)

 5. Example
 Arvind Ltd. Purchased a machine costing Rs. 5 Lakhs, and has ascertained its WDV rate as 16% p.a. The Depreciation amounts for the first five years will be as under

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Cost/Opg WDV	5,00,000	4,20,000	3,52,800	2,96,352	2,48,936
(-)	5,00,000 ×	4,20,000×	3,52,800 ×	2,96,352 ×	2,48,936×
Depreciation	16%	16%	16%	16%	16%
	= 80,000	=67,200	=56,448	= 56,448	= 39,830
Closing WDV	4,20,000	3,52,800	2,96,352	2,48,936	2,09,105

2.4 Sum of Digits of Years Method

1. Meaning	In this method, the annual Depreciation is calculated by multiplying the original cost of the asset less its estimated scrap value by applying the formula -
2.	Deprn p.a. = Depreciable Amt
Formula	
3.	Arvind Ltd purchased a machine costing Rs. 78 Lakhs, having a useful life of 5 years,
Example	and estimated Scrap value Rs. 3 Lakhs. Depreciation amounts for the years will be -
_	

Here, Sum of digits = (1 + 2 + 3 + 4 + 5) = 15. [Note: This can also be calculated as $[n \times (n + 1)] \div 2$]

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
-	75 × 5/15 =	75 × 4/15 =	$75 \times 3/15 = \text{Rs. 15 Lakhs}$	$75 \times 2/15 = \text{Rs. 10 Lakhs}$	$75 \times 1/15 = \text{Rs.5}$
amount	Rs. 25Lakhs	Rs. 20 Lakhs			Lakhs
of the year					

2.5 Machine Hour Method

1.	In this method, Depreciation is computer based on the number of Machine Hours						
Meaning	(rather than years). So, Depreciation Amount for each year is computed by applying						
	the formula -						
2.	Deprn	p.a.	=	Depreciable	Amt.	х	=
Formula	No. of Machine Hours during the year						
	Total Machine hours during the entire useful life						
3.	Arvind Ltd purchased a machine costing Rs. 23 Lakhs, having a Scarp Value of Rs.						
Example	2,30,000. The machine has a useful life of 20,700 machine hours distributed as under –						
	• Years 1 to 3: 2,500 machine hours each,						
	• Years 4 to 6: 2000 machine hours each, and						

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• Years 7 to 10: 1800 machine hours each,
In this case, Depreciation Amount will be computed as under -

- Depreciable Amount = cost less Residual Value = Rs. 23,00,000 Rs. 2,30,000 = Rs. 20,70,000
- Total Machine Hours = $(3 \times 2500) + (3 \times 2000) + (4 \times 1800) = 20,700$ machine hours.
- Depreciation Amount for each of the years will be -

Particulars	Year 1-3	Year 4-6	Year 7-10
Depreciation amount	20,70,000 × 2500 / 20700 =	20,70,000 × 2000 / 20700 =	20,70,000 × 1800 / 20700
	Rs. 2,50,000 p.a.	Rs. 2,00,000 p.a.	= Rs. 1,18,000 p.a.

2.6 Production Units Method of Depreciation

1. Meaning	In this method, Depreciation is computer based on the production / output quantity. So,				y. So,		
	Depreciation	Amount fo	or each year	is computed by appl	ying the formu	ıla -	
2. Formula	Deprn	p.a.	=	Depreciable	Amt.	Х	=
	ŀ	Product Q	uantity fo	or the current year	(
	Total Estir	nated Pro	oduction (Quantity from the	e Machine		
3. Example	Arvind Ltd purchased a machine costing Rs. 25 Lakhs, having a Scarp Value of Rs. 5						
	Lakhs. The machine is expected to produce 10 lakh units of output in the following						
	manner –						
	• Years 1 & 2 : 1,15,000 units each,						
	• Years 3 & 7 : 1,15,000 units each,						
		,	000 units ea	,			
	In this case, I	Depreciatio	n Amount v	vill be computed as u	nder -		

- Depreciable Amount = Cost less Residual Value = Rs. 25,00,000 Rs. 5,00, 000 = Rs. 20,00,000
- Total Production Qtty = $(1, 15,000 \times 2 \text{ yrs}) + (1,00,000 \times 5 \text{ yrs}) + (90,000 \times 3 \text{ yrs}) = 10,000 \text{ units}.$
- Depreciation Amount for each of the years will be -

Year 1-2	Year 3-7	Year 8-10
Rs. 20 Lakhs × 115000/10,00,000 =	Rs. 20 Lakhs × 100000/10,00,000 =	Rs. 20 Lakhs × 90000/10,00,000 =
Rs. 2,30,000 p.a.	Rs. 2,00,000 p.a.	Rs. 1,80,000 p.a.

2.7 Depletion Method of Depreciation

1. Meaning	(a) Depletion means reduction or exhaustion.			
	(b) This method is used in the case of exhaustive (wasting) assets .Mines, Quarries, Oil			
	well, etc. Containing only a certain estimated quantity of resources / products.			
	(c) For charging depreciation on such item the life of the Assets (lease period) is not			
	very important because it can be used (Mineral can be extracted) only till it contains			
	minerals.			
	(d) Depreciation amount for each year is computed by applying the formula -			
2. Formula	Deprn p.a. = Depreciable Amt ×			
	Quantity of Mineral/oilextracted during current year			
	Total Estimated Quantity from the Mine/Quarry/Well			
3. Example	Arvind Ltd took a quarry on lease by paying Rs. 75 Lakhs. As per technical estimate, the			
	total quantity of mineral deposit is 1, 00,000 tonnes. The extraction pattern is given			

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below -

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- Years 1: 6,000 tonnes,
- Years 2 to 5 : 15,000 tonnes each, and
- Years 6 & 7 : 17,000 tonnes each.
- In this case, Depreciation Amount will be computed as under -

Year 1	Year 2-5	Year 6-7
Rs. 75 Lakhs \times 6,000/1,00,000 = Rs.	Rs. 75 Lakhs × 15,000/1,00,000 =	Rs. 75 Lakhs × 17,000/1,00,000 =
4,45,000	Rs. 11,25,000 p.a.	Rs. 12,75,000 p.a.

2.10 Suitability of different methods of Depreciation

	Method	Suitability
1.	Straight Line Method	Used for assets of specified useful life, e.g. Machinery,
		Building, Furniture.
2.	WDV Method	Use commonly for Machinery, Plant, Fixtures, etc.
3.	Sum of Digits Method	Used as a variation of WDV Method.
4.	Machine Hour Method	Use for Machines whose lifetime can be measured in terms of
		hours of operation (and not in terms of years)
5.	Production Units Method	Used for Machines producing product of uniform specifications.
6.	Depletion Method	Used in the case of Mines, Quarries, oil well, etc. containing
		only a certain quantity of product/output.
7.	Annuity Method	Used for writing off the amounts paid for long lease which
		involves considerable capital outlay.

2.11 Accounting Entries for Depreciation

Depreciation can be recorded in the books of account, under 2 approaches, which are described below -

Method	Method	Method
	Asset Credit Method	Provision for Depreciation Method
1. Journal	(a) Depreciation A/c Dr.	
Entry	To Fixed Asset A/c	Profit and Loss A/c Dr.
	(b) Profit and Loss A/c Dr. To Depreciation A/c	To Provision of Depreciation A/c
2. Provision for	There is no provision for Depreciation	Depreciation for each year is credited to provision for depreciation A/c, which shows the
Depreciation A/c	Account at all.	Accumulated Depreciation on the Asset.
3. Effect on Assets	Asset A/c is shown at Historical	Asset is shown in the books at Original Cost,
A/c	Cost less	Net Book Value = original cost less Accumulated Depreciation thereon.
	Depreciation. So, balance in Asset A/c is	
	Reduced year after year.	

Note : The above schemes are applicable to SLM and WDV Methods. The same treatment is also application under – (a) Sum of Digits, (b) Machine Hours, (c) Production units, and (d) Depletion methods.

3. Related Matters

3.1 Change in Method of Depreciation

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- 1. **Consistency :** The method of depreciation should be applied consistently to facilitate comparability of the results of operations of the enterprise from period to period.
- Conditions for change : The method of depreciation can be changed only for –

 (a) Compliance with Statutory Requirements, or
 - (b) Compliance with an Accounting Standard, or

(c) Consideration that the change would result in a more appropriate preparation or presentation of the Financial Statements of the enterprise.

- 3. **Prospective Effect**: Change in method of depreciation is always applied with Prospective effect. Hence, depreciation is recalculated in accordance with the new method **from the date of change** in method.
- 4. **Disclosure** : A change in the method of charging depreciation is treated as a change in

3.2 Review and Revision of Useful Life & Deprn method

In relation to Depreciation, the following should be reviewed at least at each Financial year end, and any changes should be accounted for as a **change in an Accounting Estimate** –

Review & Revision in	Change in an Accounting Estimate, if	Treatment
Residual value and useful Life	Expectations differ from previous estimates.	Depreciable amount is adjusted.
Depreciation Method applied	There has been a significant change in the expected pattern of consumption of the future economic benefits embodied in the Asset.	Depreciation Method should be changed to reflect the changed pattern.

Illustration 3 : Change in Estimated Useful Life – Impact on Depreciation

Susmita Ltd has an asset purchased 3 years ago for Rs. 9,70,000. The residual value of the asset was estimated to be Rs. 10,000 after an estimated useful life to 8 years. The Company charges Straight Line Method of depreciation. Due to change in technology, the Company estimates that the asset will become obsolete in another 3 years time from now. How should depreciation be treated in view of revision in useful life?

Solution :

1.	Depreciable Value = Original Cost – Reside	ual Value	= Rs. 9,70,000) – Rs. 10,000	=
	Rs. 9,60,000				
2.	Depreciation amount per annum	= Rs. 9,60,000 -	÷ Rs. 8 years	= Rs. 1,20,000	
3.	Present Book Value (i.e. after three years)	= Rs. 9,70,000 -	– (Rs. 1,20,000	\times yrs) =	Rs.
	6,10,000				
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- 4. Revised useful Life = 3 Years
- 5. Revised Depreciation amount per annum = $Rs. 6,10,000 \div 3$ years= Rs. 2, 03,333
- Alternatively, considering residual value of Rs. 10,000 = (Rs. 6,10,000 Rs. 10,000) ÷ 3 yrs. = Rs. 20,00,000

3.3 Revaluation of Assets

- 1. **Revaluation :** In case of Upward Revaluation, the amount of appreciation should be debited to the Asset (PPE) Account. In case of Downward Revaluation, the amount of reduction should be credited to be Asset (PPE) Account.
- 1. **Treatment :** Where the Depreciable Assets are revalued, the Provision for Depreciation should be based on (a) the revalued amount, and (b) Estimate of the Useful Lives of such assets. The **Revaluation Reserve** should be credited for the amount of revaluation. The treatment as under -

Situation	Treatment
(a) Upward Revaluation for First time	Directly credited to Owner's Interests under the heading "Revaluation Surplus"
(b) Upward Revaluation of an item previously revalued downwards	 Credit to P & L to the extent of Reversal of previous downward revaluation. Credit the remaining portion of "Revaluation Surplus".
(c) Downward Revaluation for First Time	Recognized (i.e. debited), in Profit of Loss.
(d) Downward revaluation of an Item previously revalued upwards	 Debited to Owner's Interests under the heading "Revaluation Surplus", to the extent of any Credit Balance in the Revaluation Surplus in respect of that Asset. Debit the remaining portion, if any, to Profit or Loss.

3.4 Sale / Disposal of Assets, and Gain / Loss thereon

Sale/Disposal of Assets in dealt with in the following manner -

- 1. Ascertain Depreciation for the year (upto the date of disposal), and charge the same for that year.
- 2. Determine Net book value (or) written down value of the asset = cost less depreciation till date, including deprecation upto the date of disposal.
- 3. Compare Net book value of asset with its Disposal value and ascertain Profit/(Loss) on disposal.
- 4. Transfer the profit/(Loss) on disposal to the Profit and Loss Account.
- **Note:** Where the Net Disposal Value of an Asset is less than the expense of disposal, it is not worthwhile to dispose off the Asset. In such cases, the Asset is just retired from active use (i.e. discarded without realizing any scarp value). So, the net Book value will be the amount of loss thereon, transferred to the P & l account.

Illustration 4 : Straight Line Method – Asset Credit Method of Accounting

From the following date, you are required to show the Fixed Asset and Depreciation Account.FOR CLASSES & INFORMATION117991230008/7991230009

- Cost of Machine = Rs. 75 Lakhs, Useful Life = 7 years. Estimated Residual Value = Rs. 5 Lakhs.
- The company adopts SLM Method of Depreciation.
- In the middle of the 5th year, the Machine was sold for Rs. 32,00,000.

Solution : Depreciation under Straight Line Method = $(75 - 5) \div 7 = \text{Rs. 10}$ Lakhs per annum.

Date	Particulars	Rs.	Date	Particulars	Rs.
Year 1			Year 1		
Beginning	To Bank / Asset	75,00,000	End	By Depreciation A/c	10,00,000
	Vender A/c		End	By Balance c/d	65,00,000
	Total	75,00,000		Total	75,00,000
Year 2			Years 2		
Beginning	To Balance b/d	65,00,000	End	By Depreciation A/c	10,00,000
			End	By Balance c/d	55,00,000
	Total	65,00,000		Total	65,00,000
Year 3			Years 3		
Beginning	To Balance b/d	55,00,000	End	By Depreciation A/c	10,00,000
			End	By Balance c/d	45,00,000
	Total	55,00,000		Total	55,00,000
Year 4			Years 4		
Beginning	To Balance b/d	45,00,000	End	By Depreciation A/c	10,00,000
			End	By Balance c/d	35,00,000
	Total	45,00,000		Total	45,00,000

1.	Machinery	A/c
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Particulars	Rs.	Date	Particulars	Rs.
		Year 5		
To balance b/d	35,00,000	Middle	By Bank (Sale Proceeds)	32,00,000
To P & L A/c (Gain on Sale)	2,00,000	End	By Depreciation (for	5,00,000
	To balance b/d To P & L A/c (Gain on	To balance b/d 35,00,000 To P & L A/c (Gain on 2,00,000	To balance b/d35,00,000MiddleTo P & L A/c (Gain on2,00,000End	To balance b/d35,00,000MiddleBy Bank (Sale Proceeds)To P & L A/c (Gain on 2,00,000End

FOR CLASSES & INFORMATION

CA MUNISH KUMAR

		half-yr)	
Total	37,00,000	Total	37,00,000

2. Depreciation Account

· · I · · · · · · · · · · · · · · · · · · ·							
Date		Particulars	Rs.	Date	Particulars	Rs.	
Year End	1	To Machinery A/c	10,00,000	Year 1 End	By Profit & Loss A/c	10,00,000	
Year End	2	To Machinery A/c	10,00,000	Year 2 End	By Profit & Loss A/c	10,00,000	
Year End	3	To Machinery A/c	10,00,000	Year 3 End	By Profit & Loss A/c	10,00,000	
Year End	4	To Machinery A/c	10,00,000	Year 4 End	By Profit & Loss A/c	10,00,000	
Year End	5	To Machinery A/c	5,00,000	Year 5 End	By Profit & Loss A/c	5,00,000	

Illustration 5 : Straight Line Method – Provision for Depreciation Method

From the following date, you are required to show the Fixed Asset and Depreciation Account.

- Cost of Machine = Rs. 75 Lakhs, Useful life = 7 years. Estimated Residual Value = Rs. 5 Lakhs.
- The Company adopts SLM Method of Depreciation, and credits the same to Provision for Depreciation A/c.
- In the middle of the 5th year, the Machine was sold for Rs. 26,00,000.

Solution : Depreciation under Straight Line Method = $(75 - 5) \div 7$ Rs. 10 Lakhs annum.

1. Machinely Ave								
Date		Particulars	Rs.	Date	Particulars	Rs.		
Year	1	To Bank/Asset Vendor	75,00,000	Year 1	By Balance c/d	75,00,000		
Begin				End				
Year	2	To Bank b/d	75,00,000	Year 2	By Balance c/d	75,00,000		
Begin				End				
Year	3	k b/d	75,00,000	Year 3	By Balance c/d	75,00,000		
Begin				End				
Year	4	k b/d	75,00,000	Year 4	By Balance c/d	75,00,000		
Begin				End				
Year	5	k b/d	75,00,000	Year 5	By M/c Disposal A/c	75,00,000		
Begin				End	- tft			

1. Machinery A/c

2. Provision for Depreciation A/c

FOR CLASSES & INFORMATION

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Date	Particulars	Rs.	Date	Particulars	Rs.
Year 1			Year 1		
End	To balance c/d	10,00,000	End	By Profit and Loss A/c	10,00,000
	Total	10,00,000		Total	10,00,000
Year 2			Years 2		
Beginning	To balance c/d	20,00,000	Beginning	By Balance b/d	10,00,000
			End	By Profit and Loss A/c	55,00,000
	Total	65,00,000		Total	20,00,000
Year 3			Years 3		
Beginning	To Balance c/d	30,00,000	Beginning	By Balance b/d	20,00,000
			End	By Profit and Loss A/c	10,00,000
	Total	30,00,000		Total	30,00,000
Year 4			Years 4		
End	To Balance b/d	45,00,000	Beginning	By Balance b/d	30,00,000
			End	By Profit and Loss A/c	10,00,000
	Total	40,00,000		Total	40,00,000
Year 5			Years 5		
End	To M/c Disposal	45,00,000	Beginning	By Balance b/d	40,00,000
	A/c – tfr		End	By P&L A/c (dep for half-yr)	5,00,000
	Total	45,00,000		Total	45,00,000

3. Machinery Disposal A/c

Date	Particulars	Rs.	Date	Particular	`S	Rs.
Year 5 End	To Machinery (Cost Tfr)	75,00,000	Year 5 Middle End	By Bank Proceeds)	(Sale	26,00,000 45,00,000

FOR CLASSES & INFORMATION

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Total	75,00,000		By P & L A/c (Loss on Sale)	75,00,000
		End	By Provision for Deprn (tfr)	4,00,000

Note : When asset is sold, the cost of Asset and Accumulated Depreciation thereon is transferred to the Machinery Disposal A/c, and the net Profit/Loss on sale is transferred to P&L Account.

Illustration 6 : WDV Method – Asset Credit Method of Accounting

From the following date, you are required to show the Fixed Asset and Depreciation Account for 5 years.

- Cost of Machine = Rs. 5 Lakhs.
- Assume WDV Method of Depreciation and WDV Rate = 16%
- As the end of the fifth years, the asset is sold for Rs. 1,80,000.

Solution : 1. Computation of Depreciation for each of the first 5 years is given below

Particulars	Year 1				
Cost/Opg WDV	5,00,000	4,20,000	3,52,800	2,96,352	2,48,936
(-) Depreciation	5,00,000 × 16%	4,20,000 × 16%	3,52,800 × 16%	2,96,352 × 16%	2,48,936 × 16%
	= 80,000	= 67,200	= 56,448	= 47,416	= 39,830
Closing WDV	4,20,000	3,52,800	2,96,352	2,48,936	2,09,105

Date	Particulars	Rs.	Date	Particulars	Rs.
Year 1			Year 1		
Beginning	To Bank/Asset Vendor	5,00,000	End	By Depreciation A/c	80,000
	A/c		End	By Balance c/d	4,20,000
	Total	5,00,000		Total	5,00,000
Year 2			Year 2		
Beginning	To balance b/d	4,20,000	End	By Depreciation A/c	67,200
			End	By Balance c/d	3,52,800

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	Total	4,20,000		Total	4,20,000
Year 3			Year 3		
Beginning	To balance b/d	3,52,800	End	By Depreciation A/c	56,448
			End	By Balance c/d	2,96,352
	Total	3,52,800		Total	3,52,800
Year 4			Year 4		
Beginning	To balance b/d	2,96,352	End	By Depreciation A/c	47,416
			End	By Balance c/d	2,48,936
	Total	2,96,352		Total	2,96,352
Year 5			Year 5		
Beginning	To balance b/d	2,48,936	End End	By Depreciation A/c (full yr)	39,830 1,80,000
			End	By Bank (sale Proceeds)	29,106
				By P&L A/c (Loss on Sale)	
	Total	2,48,936		Total	2,48,936

3. Depreciation Account

Date		Particulars	Rs.	Date	Particulars	Rs.
Year	1	To Machinery A/c	80,000	Year 1 End	By Profit & Loss A/c	80,000
End						
Year	2	To Machinery A/c	67,200	Year 2 End	By Profit & Loss A/c	67,200
End					-	
Year	3	To Machinery A/c	56,448	Year 3 End	By Profit & Loss A/c	56,448
End						
Year	4	To Machinery A/c	10,00,000	Year 4 End	By Profit & Loss A/c	47,416
End		-				
Year	5	To Machinery A/c	5,00,000	Year 5 End	By Profit & Loss A/c	39,830
End		-				

Discuss the factors taken into consideration for calculation of depreciation. (Nov. 2020, 5 Marks) Ans. The elements relevant for deciding the rate / amount of depreciation are:

- Cost of acquisition (Cost necessary to put an assets into usable condition)
- The estimated life of the asset.
- Estimated scrap value at the end of its life.

Amortization

Ans.The word Amortisation refers to the economic deterioration by the expiration of intangible assets like goodwill, patents, copyrights, trademarks etc.

(Dec 2021, 1 marks)

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Depreciation is a non cash expense and does not result in any cash outflow. (Nov. 20185, 2 Marks) Ans. TRUE: Depreciation is a non cash expenses and there is no outflow of cash in the business.

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PREVIOUS YEAR QUESTION

1. A Plant & Machinery costing 10,00,000 is depreciated on straight line assuming 10 year working life and zero residual value, for four years, At the end of the fourth year, the machinery was revalued upwards by Rs. 40,000. The remaining useful life was reassessed at 8 years. Calculate Depreciation for the fifth year.

[Nov. 2018, 4 Marks]

2. A Firm purchased an old Machinery for Rs. 37,000 on 1st January, 2015 and spent Rs. 3,000 on its overhauling. On 1st July 2016, another machine was purchased for Rs. 10,000. On 1st July 2017, the machinery which was purchased on 1st January 2015, was sold for Rs. 28,000 and the same day a new machinery costing Rs. 25,000 was purchased. On 1st July, 2018, the machine which was purchased on 1st July, 2016 was sold for Rs. 2,000. Depreciation is charged @ 10% per annum on straight line method. The firm changed the method and adopted diminishing balance method with effect from 1st January, 2016 and the rate was increased to 15% per annum. The books are closed on 31st December every year. Prepare Machinery account for four years from 1st January, 2015.

[May 2019,10 Marks]

3. X purchased a machinery on 1st January 2017 for Rs. 4,80,000 and spent Rs.20,000 on its installation. On July 1, 2017 another machinery costing Rs. 2,00,000 was purchased. On 1st July, 2018 the machinery purchased on 1st January, 2017 having become scrapped and was sold for Rs. 2,90,000 and on the same date fresh machinery was purchased for Rs. 5,00,000. Depreciation is provided annually on 31st December at the rate of 10% p.a. on written down value. Prepare Machinery account for the years 2017 and 2018.

[Nov. 2019, 4 Marks]

4. M/s. Dayal Transport Company purchased 10 trucks @ Rs.50,00,000 each on 1st July 2017. On 1st October, 2019, one of the trucks is involved in an accident and is completely destroyed and Rs. 35,00,000 is received from the insurance in full settlement. On the same date, another truck is purchased by the company for the sum of Rs. 60,00,000. The company writes off 20% of the original cost per annum. The company observes the calendar year as its financial year. Give the motor truck account for two years ending 31st December, 2020.

[Jan. 2021, 10 Marks]

5. The balance of Machinery Account of a firm on 1st April, 2020 was Rs. 28,54,000. Out of this, a plant having book value of Rs. 2,16,000 as on 1st April, 2020 was sold on 1st July, 2020 for Rs. 82,000. On the same date a new plant was purchased for Rs. 4,58,000 and Rs. 22,000 was spent on its erection. On 1st November, 2020 a new machine was purchased for Rs. 5,60,000. Depreciation is written off @ 15% per annum under the diminishing balance method. Calculate the depreciation for the year ended 31st March, 2021.

[July 2021, 4 Marks]

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6. On 1st January, 2019 Kohinoor Transport Company purchased a Bus for Rs. 8,00,000. On 1st July, 2020 this bus was damaged due to fire and was completely destroyed and Rs.6,00,000 were received by a cheque from the Insurance Company in full settlement on 1st October, 2020. On 1st July, 2020 another Bus was purchased by the company for Rs. 10,00,000. The Company charges Depreciation @ 20% per annum under the WDV Method. Calculate the amount of depreciation for the year ended 31st March, 2021 and gain or loss on the destroyed Bus.

[Dec. 2021, 5 Marks]

7. The Machinery Account of a Factory showed a balance of Rs. 95 Lakhs on 1st April, 2020. The Books of Account of the Factory are closed on 31st March every year and Depreciation is written off @ 10% per annum under the Diminishing Balance Method. On 1st September, 2020 a new machine was acquired at a cost of Rs. 14 Lakhs and Rs. 44,600 was incurred on the same day

as installation charges for erecting the machine. On 1st September, 2020 a machine which had cost Rs. 21,87,000 on 1st April, 2018 was sold for Rs. 3,75,000. Another machine which had cost Rs. 21,85,000 on 1st April, 2019 was scrapped on 1st September, 2020 and it realized nothing. Prepare the Plant and Machinery Account for the year ended 31st March, 2021. Allow the same rate of depreciation as in the past and calculate depreciation of the nearest multiple of a rupee. Also show all the necessary working notes.

[June 2022, 10 Marks]

8. A purchased a machinery for Rs. 1,30,000 on 1st April, 2019 and paid Rs.20,000 for freight &installation charges. On 1st October, 2021 another machine was purchased for Rs. 50,000 and sold old machinery for Rs. 1.00,000. The machine purchased on 1st October, 2021 was installed on 1st January, 2022. Under existing practice, the company is charging depreciation @20% p.a. on the original cost. However, from 1st April, 2021 it decided to adopt **WDV** method and charge depreciation @15% p.a. You are required to prepare Machinery Account from 1st April, 2019 to 31st March, 2022.

[Dec. 2022, 4 Marks]

9. The following balances appear in the books of Dheeraj Enterprises

	Rs
Machine account as on 1-4-2021	12,00,000
Provision for depreciation account as on 1-4-2021	4,65,000

On 1st October 2021 the Machinery which was purchase on 1st April ,2018 for Rs 2,00,000 was sold for Rs 1,10,000 and on the same date another Machinery was purchase for Rs 4,80,000. The firm has been charging depreciation @ 10% p.a. on written down value of the Machinery every year. Prepare the Machinery account, Provision for Depreciation account and Machinery disposal account for the year ending 31st March 2022. (JUNE 2023, 10 Marks)

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