CA FOUNDATION





Subject: Accounts

Depreciation & Amortisation

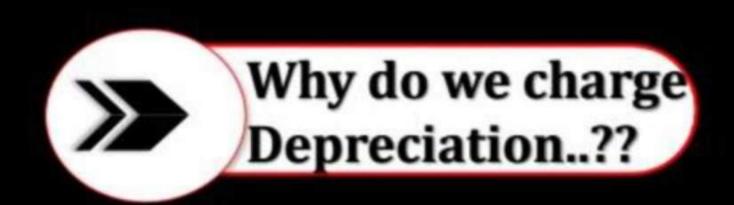


By- CA Rishabh Rohra



Depreciation -> Tangible Asset

Amortisation -> Intangible Asset





> Benefit 12m>

Concept of Depreciation

Tangible Assets are assets that have a physical substance i.e., they can be seen and touched, held for use in the production or supply of goods or services, for rental to others, or for administrative purposes. Useful life of tangible asset is based on expected usage. Property, plant and equipment are tangible items that:

- (a) are held for use in the production or supply of goods or services, for rental to others, or for administrative purposes; and
- (b) are expected to be used during more than a period of twelve months.



These are also called fixed assets in common parlance. When a fixed asset is purchased, it is recorded in books of account at its original or acquisition/purchase cost. However fixed assets are used to earn revenues or save costs for several accounting periods in future with the same acquisition cost until the concerned fixed asset is sold or discarded. For example, acquisition of a machinery expected to be in use for 10 years in the production of finished goods will earn revenues over the next 10 years. Similarly, an ATM machine installed by a bank will result in cost savings over the expected life of such ATM machines for the bank in terms of not requiring to employ personnel to dispense cash for customers. Since the life of such assets exceeds one year, it is therefore necessary that a part of the acquisition cost of such fixed assets be treated or allocated as an expense in each of the accounting period in which the asset is utilized.



Why do we charge Depn...?

The amount or value of fixed assets allocated in such manner to respective accounting period is called depreciation. Value of such assets decreases with passage of time mainly due to following reasons.

- 1. Wear and tear due to its use in business
- 2. Efflux of time (even when it is not being used)
- 3. Obsolescence due to technological or other changes
- 4. Decrease in market value
- Depletion mainly in case of mines and other natural reserves

It is important to account for value of portion of property, plant and equipment utilized for generating revenue during an accounting year to ascertain true income. In other words, against the income/cost savings generated during a period, it is essential to book a portion of the cost of the asset utilized in generating such income/cost savings. This portion of cost of Property, Plant & Equipment allocated to an accounting year is called depreciation.



Factors in the Measurement of Depreciation



Estimation of exact amount of depreciation is not easy as it involves lot of estimation. Generally following factors are taken into consideration for calculation of depreciation.

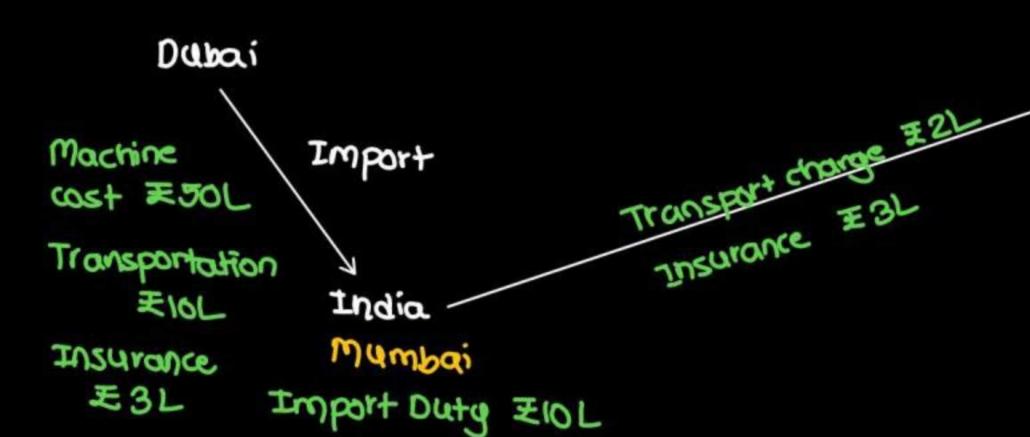
- 1. Cost of asset including expenses for installation, commissioning, trial run etc.
- 2. Estimated useful life of the asset (both in terms of time & also utility/units).
- 3. Estimated scrap value (if any) at the end of useful life of the asset.

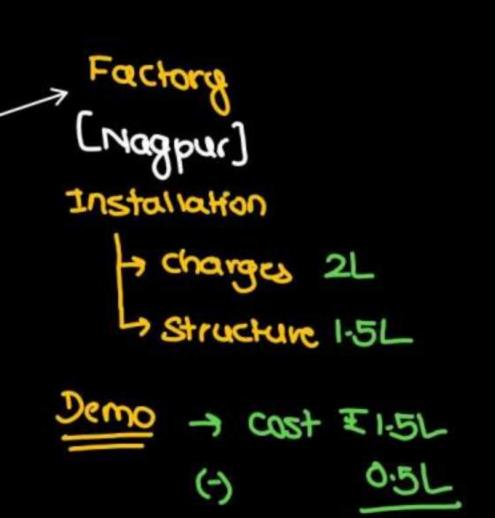
The above mentioned factors can be explained, in detail, as follows

Depri calculate
$$\rightarrow$$
 (1) Cost of Asset

(2) Estimated useful life of Person to person

(3) Residual | Scrap value of Different hotte hair





Machine
$$\rightarrow$$
 COA = 50L + 10L + 3L
cost of Acq:
or +2L+3L+2L
or +1.5L+1L
cost of Asset = £72.5L

JIX



Cost of Property, Plant and Equipment comprises:

- (a) its purchase price, including non-refundable import duties and purchase taxes, after deducting trade discounts and rebates.
- (b) any cost directly attributable to bring the asset to the location and condition necessary for it to be capable of operating in a manner intended by the enterprise.
- (c) the initial estimate of the costs of dismantling, removing, the item and restoring the site on which an asset is located.

Examples of directly attributable costs are:

- (a) cost of employee benefits arising directly from acquisition or construction of an item of property, plant and equipment.
- (b) cost of site preparation



- (c) initial delivery and handling costs
- (d) installation and assembly costs
- (e) cost of testing whether the asset is functioning properly, after deducting the net proceeds from selling the items produced while testing (such as samples produced while testing)
- (f) professional fees e.g. engineers hired for helping in installation of a machine Thus, all the expenses which are necessary for the asset to bring it in condition and location of desired use will become part of cost of the asset. However, following expenses should not become part of cost of asset:
- (a) costs of opening new facility or business, such as inauguration costs;
- (b) cost of introducing new product or service (for example cost of advertisement or promotional activities).



- (c) cost of conducting business in a new location or with a new class of customer (including cost of staff training); and
- (d) administration and other general overhead costs.

Once an asset has been brought to its intended condition and location of use, no cost should be recognized as part of cost of the asset unless there is major repair or addition which increases the useful life of the asset or improves the production capacity of the asset. Accordingly, cost incurred while an item is capable of operating in intended manner but it is not yet put to use or is used at less than full capacity should not be capitalized as part of cost of the asset. Similarly, cost of relocation of an asset should not be capitalized.



Any additions made to a particular item of property, plant and equipment after it is initially put to use are depreciated over the remaining useful life of the asset. Any addition or extension which has a separate identity and is capable of being used after the existing asset is disposed of, is accounted for separately. Therefore, it is important to maintain an asset register capturing asset wise details of cost, rate of depreciation, date of capitalization etc. All these details need to be captured for any additions to existing assets as well. In the absence of the adequate information, it will be very difficult to compute depreciation expense year on year. Also, at the time of disposal or discard of a particular asset, it will not be possible to compute gain or loss on such disposal/discard.



Depreciation Method

sum of

Digit

method

Straight Line method

S)

Fixed Instalment

method

Hint: Depn 2107.00 original cost

Written Down Value method

5

Beducing Bal.

method

or

Diminishing Bal.

method

unit method/

Hours method/

Tonnes method



How to decide whether YE is 31103 or 31112 ??

Question -> 2020 - 21 Year Start 01/04/ 2020

Year end 311031 2021

Question -> 2020 Year Start 01101120

Year end 31112120

QUESTION (Illustration -1 - Page No. 5.11 ICAI Module)



3112122

YE 3112121

Jain Bros. acquired a machine on 1st July, 2021 at a cost of ₹ 14,00,000 and spent ₹ 1,00,000 on its installation. The firm writes off depreciation at 10% p.a. of the original cost every year. The books are closed on 31st December every year.

Required

Show the Machinery Account and Depreciation Account for the year 2021 and 2022.

purchase cost	14L	Dept - Rate 10:1. of original cost P.a. Def	
+ Installation	IL	Date of parchase -> 01107121 YE 31112121 6	13
cost of Acquistion	15L	YE 3112122 12	<u> </u>



Depn for year ending 31/12/21 -> 15,00,000 × 10% × 6 = ₹ 75,000

Depn for year ending 31/12/122 -> 15/100,000 × 10% × 12 = \$1,50,000



01/07/21 Machinery Alc Dr. 14,00,000

To Bank Alc 14,00,000

Machinery Ale Dr. 1.00,000
To Bank Ale 1.00,000

31112121 Depreciation AIC Dr. 75,000
To Machinery AIC 75,000

Pal Alc Dr. 75,000
To Depreciation Alc 75,000

31/12/22 Depreciation Alc Dr. 1,50,000 To Machinery Alc 1,50,000

Pal Alc Dr. 1,50,000
To Depreciation Alc 1,50,000

Depth calculate -> period / Year end End End

OR

Date of sale

V

Machinery AK

Date	Particulars	₹	Date	Particulars	₹
01107121	To Bonk Alc	14,00,000	31112121	By Depreciation Alc	75,000
	To Bank Alc (Installation exp.)	1,00,000	3112121	By Baicia	14,25,000
		15,00,000			15,00,000
01101122	TO Bai bid	14,25,000	31112122	By Depreciation Arc By Balcid	1,50,000 12.75,000
		14,25,000			14,25,000
01101153	10 8a1 b1d				

V

Deprectation Alc

Date	Particulars	₹	Date	Particulars	₹
3112121	To Machinery Aic	75,000	31112121	By Pal Alc	75,000
		75,000			75,000
3112122	To Machinery Ak	1,50,000	31112122	By Pal Aic	1,50,000
		1,50,000			1,50,000

QUESTION (Illustration -2 - Page No. 5.12 ICAI Module)



Jain Bros. acquired a machine on 1st July, 2021 at a cost of ₹ 14,00,000 and spent ₹ 1,00,000 on its installation. The firm writes off depreciation at 10% p.a. every year. The books are closed on 31st December every year.

| 15t year Depn -> COA
| 2nd year onwards -> Reduce value

Show the Machinery Account on diminishing balance method for the year 2021 and 2022. MDY, RBIG

1st year i.e year ending 3112121

2nd year ive year ending 31112122

V

Machinery AK

Date	Particulars	₹	Date	Particulars	₹
01107121	To Bonk Alc	14,00,000	31112121	By Depreciation Alc	75,000
	To Bank Alc (Installation exp.)	1,00,000	3112121	By Baicia	14,25,000
		15,00,000			15,00,000
01101122	D Bai pid	14,25,000	31112122	By Depreciation Arc By Baicid	1,42,500
			31112122	0 0 4	12,02,000
		14,25,000			14,25,000
01101153	TO 8a1 b1d	12,82,500			

V

Deprectation Alc

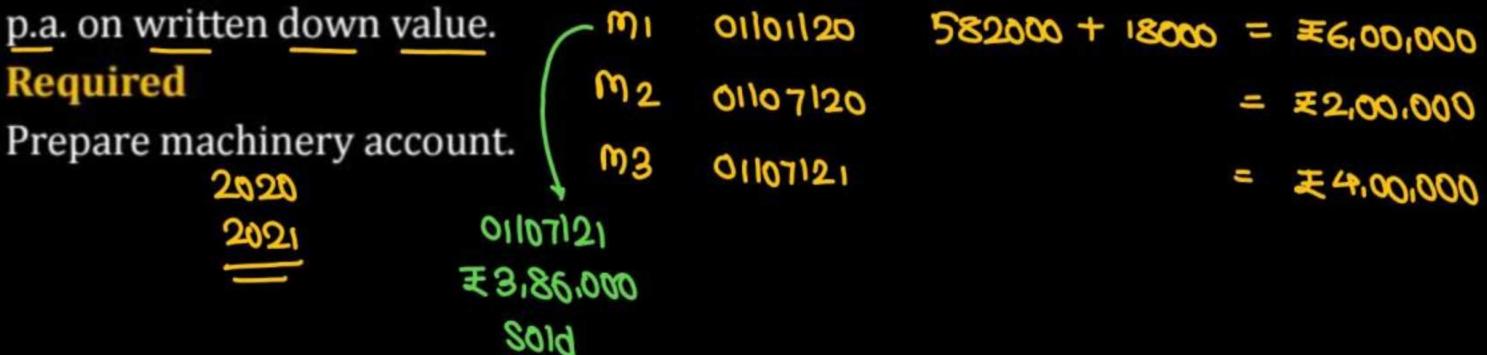
			Depice a non		
Date	Particulars	₹	Date	Particulars	₹
3112121	To Machinery Aic	75,000	31112121	By Pal Alc	75,000
		75,000			75,000
31112122	To Machinery Ak	1,42,500	31112122	By- Pal Aic	1.42.500
		1,42,500			1,42,500

QUESTION (Illustration -7 - Page No. 5.18 ICAI Module)



A firm purchased on 1st January, 2020 certain machinery for ₹ 5,82,000 and spent ₹ 18,000 on its erection. On July 1, 2020 another machinery for ₹ 2,00,000 was acquired. On 1st July, 2021 the machinery purchased on 1st January, 2020 having become obsolete was auctioned for ₹ 3,86,000 and on the same date fresh machinery was purchased at a cost of ₹ 4,00,000.

Depreciation was provided for annually on 31st December at the rate of 10 per cent



Particulars	M)	M2	m3
COA	£6,00,000	32,00,000	£4,00,000
Date of Purchase	01101120	01107120	01107121
Date of sale	0107121	-	-
Sale value	£3,86,000	_	-
01/01/20 to 31/12/20			
month used	1219	6110	
Depreciation Cloy.	I60,000	£10,000	\times
	(6LX107, x12/12)	(21×107. ×6/12)	
value of machinery on YE	£5,40,000	£1,90,000	
01101121 to 31112121 month used	4 00		
	6m	1200	6m
Value of machine on or all and	₹27,000	£ 13,000	₹20,000 (4LX107-X6112)
Yalue of machine on Dt. of sale		_	10/10/-10/12)
Sold for	£ 3186,000	_	
LOSS	€ 1,27,000	_	



V

Machinery Alc

	T/COTTICE STACE				
Date	Particulars	₹	Date	Particulars	₹
01101120	To Bank AIC - MI To Bank AIC - MI (Installation)	5,82,000 18,000	31112120	By Depreciation ALC MI 60,000 M2 10,000 By Baicid MI 5,40,000	70,000
01107120	4.5	2,00,000		m2 1,90,000	7,30,000
		8,00,000			8,00,000
01101121 01107121	To Bank Alc - m3	7,30,000 4,00,000	3112121	By Depreciation Alc - MI By Bonk Alc By Loss on Sale of Asset - Palak By Loss on Sale of Asset - Palak By Depreciation - M2 19,000	
				By Baicid — 19,000 By Baicid — 30,000	5,51,000
		11,30,000			11:30:000

01101120	Machinery Alc Dr. 5,82,000 To Bank Alc 5,82,000	01107121	Depreciation Alc Dr. 27,000 To Machinery Alc 27,000
	Machinery AIC Dr 18,000 To Bank Are 18,000		Bank Alc Dr. 3.86,000 Loss on sale of Asset Alc Dr 1,27,000 To Nachinery Alc 5,13,000
01107120	Machinery Alc for 2,00,000 To Bank Alc 2,00,000		Machinery Atc Br 4,00,000 To Bank Atc 4,00,000
31112120	Depreciation Alc Dr. 70,000 To Machinery Atc 70,000	31112121	Depreciation Atc Or 38,000 To Machinery Atc 38,000
	Pal AIC Dr. 70,000 To Depreciation Arc 70,000		Pal Aic on 1,93,000 To Depreciation Arc 66,000 To Loss on sale of Asset Arc1.27,000

QUESTION (Illustration -3 - Page No. 5.13 ICAI Module)

M/s Akash & Co. purchased a machine for ₹ 10,00,000. Estimated useful life and scrap value were 10 years and ₹ 1,20,000 respectively. The machine was put to use on

1.1.2017.

Required

Show Machinery Account and Depreciation Account in their books for 2022 by using sum of years digits method. Year $\rightarrow 10$ Sum = 10+9+5+7+6+5+4+3+2+1=55

formulae = $0 \times (0+1)$

Sum of Digit
$$\rightarrow$$
 Alteration of Wov method $= 10 \times (10+1)$ $=$



Value of machine as on ollo1122

5 year total Depn

(B) 10,00,000 (-) 6,40,000

$$= 6.40.000$$



Machinery Arc

Date	Particulars	₹	Date	Particulars	₹
01101122	To Bai bid	3,60,000	31112122	By Depreciation Alc [10,00,000 (+) 1,20,000] x 5 55	80,000
			31112122	By Balcid	2,80,000
		3,60,000			3,60,000
01101128	To Baible	2,80,000			

QUESTION (Illustration -4 - Page No. 5.14 ICAI Module)

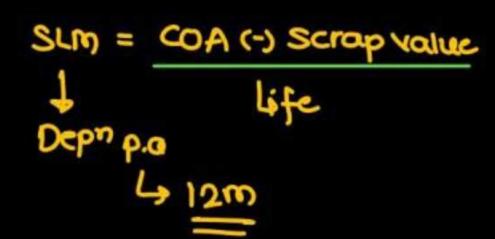


A machine was purchased for ₹ 30,00,000 having an estimated total working of 24,000 hours. The scrap value is expected to be ₹ 2,00,000 and anticipated pattern of

008,1

008,1

distribution	on of effective hours is as follows:		Hours
distributi	on of checuve hours is as follows.	1	3,000
Year			3,000
1 - 3	3,000 hours per year		3,000
1-3	3,000 flours per year	4	2,600
4 - 6	2,600 hours per year		2,600
7 - 10	1,800 hours per year	6	2,600
Required		8	1,800
Determin	e Annual Depreciation under Machine Hour	Rate	





Depreciation for =
$$30.00.000 (-) 2.00.000 \times 3.000 = £3.50.000 p.a$$
 for year 1-3

Depreciation for = $30.00.000 (-) 2.00.000 \times 2.600 = £3.03.333 p.a$ for year 4-6

Depreciation for = $30.00.000 (-) 2.00.000 \times 2.600 = £3.03.333 p.a$ for year 4.5.6

Depreciation for = $30.00.000 (-) 2.00.000 \times 1.800 = £2.10.000 p.a$ for year 7.8.9.10

QUESTION (Illustration -5 - Page No. 5.15 ICAI Module)



A machine is purchased for ₹ 20,00,000. Its estimated useful life is 10 years with a residual value of ₹ 2,00,000. The machine is expected to produce 1.5 lakh units during its life time. Expected distribution pattern of production is as follows:

Year	Production
1-3	20,000 units per year
4-7	15,000 units per year
8-10	10,000 units per year
Required	

Determine the value of depreciation for each year using production units method.



Depreciation for year =
$$\frac{220.00.000 \ \Xi 2.00.000}{1.50.000} \times 10.000 = \Xi 1.20.000 \ P.a. for year \ E.9.10$$

QUESTION (Illustration -6 - Page No. 5.16 ICAI Module)



M/s Surya & Co. took lease of a quarry on 1-1-2019 for ₹ 1,00,00,000. As per technical estimate the total quantity of mineral deposit is 2,00,000 tonnes. Depreciation was charged on the basis of depletion method. Extraction pattern is given in the following table:

Year	Quantity of Mineral extracted	2,00,000 × extracted.
2019	2,000 tonnes - Depreciation =	₹1,00,000
2020	10,000 tonnes - Depreciation =	£5,00,000
2021	15,000 tonnes → Depreciotion =	£7,50,000

Required

Show the Quarry Lease Account and Depreciation Account for each year from 2019 to 2021.



Quarry Lease Alc

Date	Particulars	₹	Date	Particulars	₹
Olloilia	To Bank Alc	1,00,00,000	31112118	By Depreciation Alc	1,00,000
			3112119	By Baicig	93,00,000
		1,00,00,000			1,00,000
01101120	To Baisid	99,00,000	31112120	By Depreciation AIC	5,00,000
			31112120	By Baicle	94.00.000
		000,000,000			93,00,000
01101121	To Bos bid	94,00,000	31112121	By Depreciation Ale	7,50,000
			3112151	By Barcia	86,50,000
		94.00,000			94.00.000
01101122	To Baip19	86,50,000			



Depreciation AIC

Date	Particulars	₹	Date	Particulars	₹
31112119	To Quarry lease At	1,00,000	31112119	By Pal Atc	1,00,000
		1,00,000			1,00,000
31112120	To Quarry lease At	c 5,00,000	31112120	By Pal Arc	5,00,000
		£100,000			5,00,000
8111યગ	To Quarry wase Apo	7,50,000	31112121	By Pal APC	600,02,T
		7,50,000			7,50,000

QUESTION (Illustration -8 - Page No. 5.19 ICAI Module)



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On April 1, 2019 Shubra Ltd. purchased a machinery for $\frac{12,00,000}{12,000}$. On Oct 1, 2021, a part of the machinery purchased on April 1, 2019 for $\frac{80,000}{12,000}$ was sold for $\frac{45,000}{12,000}$ and a new machinery at a cost of $\frac{1,58,000}{12,000}$ was purchased and installed on the same date. The company has adopted the method of providing $\frac{10\%}{1000}$ p.a. depreciation on the written down value of the machinery.

Required: Show the necessary ledger accounts for the years ended 31st March, 2020 to 2022 assuming that (a) 'Provision for Depreciation Account' is not maintained (b) Provision for Depreciation Account is maintained.

 $12,00,000 \rightarrow 45000$

Dak of purchase Cost of Acquisition Dak of sale Sale value	M1-Part 1 £ 11.20.000 0110419	#80,000 01104119 01110/21 #45,00	1.58,000 0110121 -
oilo416 to 31103120 Month used Depreciation cy Value of machine after Depre	12m E1,12,000 E10,08,000	12m = 8,000 = 72,000	X
Orlogiza to 31103121 month used Depriciation cy Value of machinery after Depri	12m ₹1,00,800 ₹9,07,200	12m ₹7.200 ₹64.800	

••



Dak of purchase cost of Acquisition Dak of sale sale value	M1-Part 1 £ 11.20.000 0110419 -	#80,000 01104119 01110/21 #45,00	1.58,000	
Ollo4121 to 31103122 Month used Depreciation cy Value of machine after per Sold for loss on sale		E3.240 E61.560 E451000 E16.560	6m £7,900 £1,50,100	303520 7800 3,11,420
TOI.Depn till Date	₹3,03,520	E18,440	£ 7900	



Machinery AK

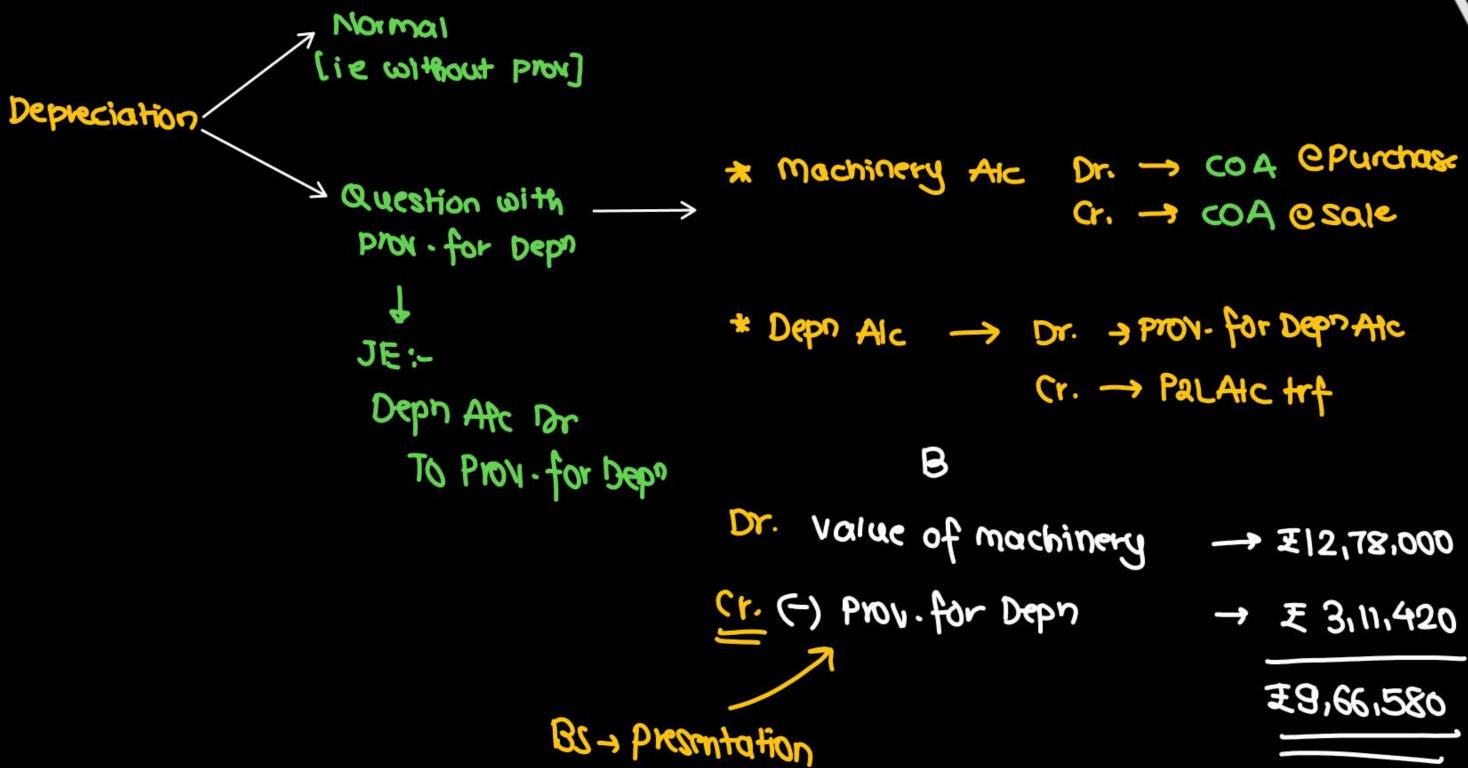
			Jaconne g me		
Date	Particulars	₹	Date	Particulars	₹
01104119	To Bank Alc	12.00,000	31103120	By Depreciation Alc	1,20,000
			31103120	ByBaicial	10,80,000
		12,00,000			12,00.000
01104120	To Baisid	10,80,000	31103121	By Depreciation Atc	1,08,000
			31103/21	By Bairid	9,72,000
		10,80,000			10,80,000
01104121	To Bank Arc	9,72,000	31103122	By Depreciation By Bank Alc By Loss on sale of Asset-Pal By Depreciation APC [90720] By Bal Cld	3,240 45,000 16,560 98,620 9,66,580
		11,30,000			11.30.000



DepriciationAlc

Date	Particulars	₹	Date	Particulars	₹
31103120	To Machinery Atc	1,20,000	31103120	By Pal Aic	1,20,000
		1,20,000			1.20,000
આજીય	To Machinery Atc	1,08,000	31103121	By Palaic	1,08,000
		1,08,000			1,08,000
	To Machinery Alc	3,240	31103122	By Pal Alc	1.01.860
3103122	To Machinery Atc	98,620			
		1.01.860			1.01.860





		n	V		
Date	Particulars	₹	Date	Particulars	₹
01104119	To Bank AIC	12,00,000	31103120	By Bai49	12,00,000
		12,00,000			12,00,000
01104120	To Bai 6(9	12,00,000	31103131	By Baicia	12,00,000
		12,00,000			12,00,000
01104121 0110122	To Bank Arc	12,00,000	31103155	By Machinery Disposal Alc	80,000
			3/103-72	By Baicia	12,78.000
		13'28'000			13'28'000
01104120	L TO Bai bid	12,78,000			

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DepriciationAlc

Date	Particulars	₹	Date	Particulars	₹
31103120	To Prov. for DepnAx	1,20,000	31103120	By Pal Aic	1,20,000
		1,20,000			1.20,000
31031ય	To Proy. for Ocpn Arc	1,08,000	31103121	By Palaic	1,08,000
		1,08,000			1,08,000
	To Prov-for DeprAPC	3,240	31103122	By Pal Alc	1.01,860
3103122	TO Provifor Deph And	98,620			
		1.01.860			1,01,860

Provi-for Depn Ac Always Cr.

Date	Particulars	₹	Date	Particulars	₹
31103120	To Bai clo	1,20,000	31103120	By Depreciation Alc	1,20,000
31103121	To Balad	2,28,000	01104120	By Bal bld	1.20.000
			31103121	By Depn Alc	1,08,000
		2,28,000			2,28,000
01110121	To machinery	18,440	01104121	By Bai 61d	2,28,000
	Disposal Atc		01110121	By Depreciation Alc	3,240
TOt-Depn Of Part Sold	TO BOICIG -	3,11,420	31103122	By Depuciation At	98,620
		3,29,860			3,29,860
			01104122	By Bai 614	3,11,420

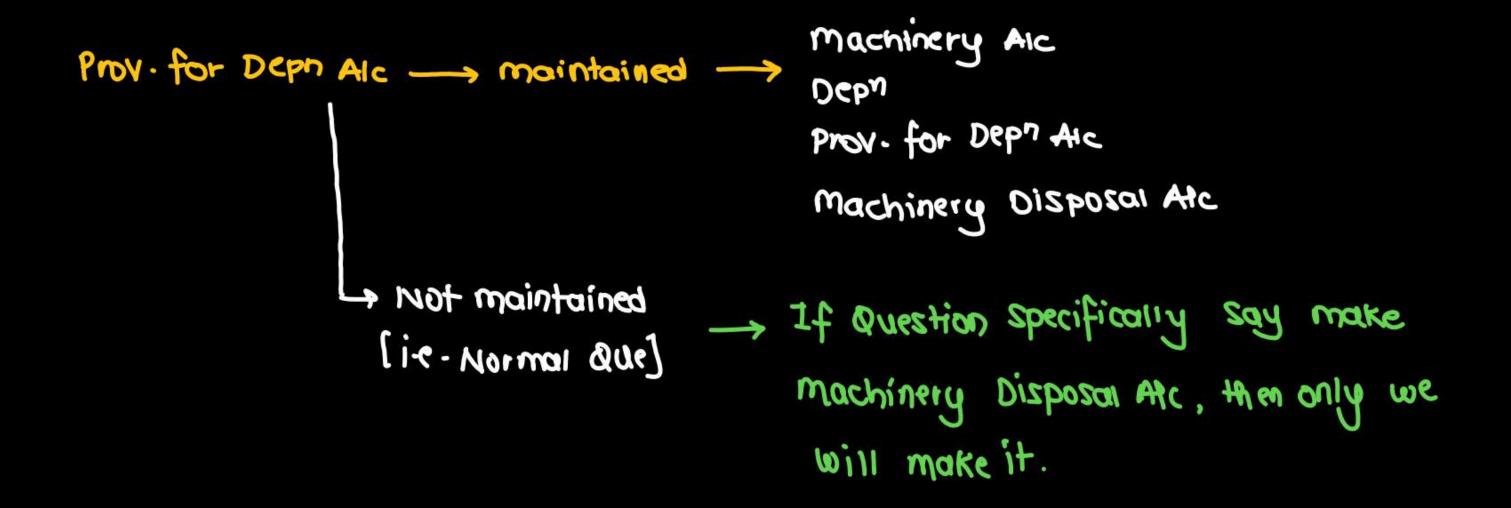




Machinery Disposal ALC

Date	Particulars	₹	Date	Particulars	₹
01110121	To Machinery AIC	80.000	0)110121	By Prov. for Depn Alc By Bonk Alc By loss on sale of Asset Ly Pal Alc	18,440 45,000 16,560
		80.000			80,000
	Machi	nov. For Deponery Amachinery	Atc On	Provi for Depri Alc Dr. To machinery Disposal Alc Bank Alc Dr. Luss on sak of Asset Dr To machinery Disposal Alc	





QUESTION (Illustration -9 - Page No. 5.21 ICAI Module)

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A firm purchased second hand machinery on 1st January, 2019 for $\stackrel{?}{\underset{?}{|}}$ 3,00,000, subsequent to which $\stackrel{?}{\underset{?}{|}}$ 60,000 and $\stackrel{?}{\underset{?}{|}}$ 40,000 were spent on its repairs and installation, respectively. On 1st July, 2020 another machinery was purchased for $\stackrel{?}{\underset{?}{|}}$ 2,60,000. On 1st July, 2021, the first machinery having become outdated was auctioned for $\stackrel{?}{\underset{?}{|}}$ 3,20,000 and on the same date, another machinery was purchased for $\stackrel{?}{\underset{?}{|}}$ 2,50,000. On 1st July, 2022, the second machinery was also sold off and it fetched $\stackrel{?}{\underset{?}{|}}$ 2,30,000. Depreciation was provided on machinery @ 10% on the original cost annually on 31st December, under the straight line method.

Required

Prepare the following accounts in the books of the company: (i) Machinery Account for the years ending Dec. 31, 2019 to 2022 and (ii) Machinery Disposal Account.

```
2019
Prov. for Depn -> maintain -> machinery Disposal Atc -> COA

2020

Not maintained -> machinery Disposal Atc -> after Depn
2020
```

	ന്	M2	m ₃
Dak of purchase cost of Acquisition Dak of sale sale sale value	01101119 £4,00,000 01107121 £3,20,000	51107120 12,60,000 01107122 £2,32,000	0167121 £2,50,000
Ollowing to 31112119 Month used Depreciationer Value of machine after Depre	12M £ 40,000 £ 3,60,000		X
OIIVII20 to Bili2120 month used Depreciation ct Value of machinery after Depre	12m £40.000 £3,20,000	6M £13,000 £2,47,000	

•



		176		
	Mi	M2	m ₃	
Dak of purchase	01101119	01107120	01/07/21	
cost of Acquisition	£4,00,000	12,60,000	£2,50,000	
Dak of sale	01107121	01107122	, ;	
sale value	王31201000	£2,30,000	_	
01/01/21 to 31/12/21				
month used	6m	1200	610	
Depreciationcy	√£20,000	√£26,000	J £12,500	
value of machine after Depr	JE3100,000	£2,21,000	£2,37,500	
sold for	₹3.20,000	_	_	
Profit	₹ 20,000	_	_	
01101122 to 31112122			100	10
month used	1	600	12m	
Depn for cy	X	£13,000	£25,000 —	→ 0]
Value after Depn		£2,08,000	£2,12,500	
sow for		£2,30,000 22,000		

•.



Machinery Alc

		1190171	ilety Aic		
Date	Particulars	₹	Date	Particulars	₹
0110119	TO Bank AIC	3.00.000	31112119	By Depreciation Alc	40,000
	TO BONK AIC- Repair		31112119	By Baicld	3,60,000
	TO Bank APC-IMPO	40,000			
		4,00,000			4,00,000
01101120	To Baipia	3,60,000	31112120	By Depreciation Are [40000]	53,000
01107120	To BankAic	2,60,000	3112120	BABalcia	5,67,000
		6,20,000			6,20,000
01/01/21	To Bai bld	5,67,000	12170110	By Depreciation Ale	20,000
01107121	TO BONK AAC	2,50,000	12170110	By Machinery Disposal Atc	3,00,000
			31112121	By Depxciation Atc [26000 +]	38,500
			31/12/21	By Baicia	4,58,500
		8,17,000			8.17.000



Machinery Alc

Date	Particulars	₹	Date	Particulars	₹
01101122	To Bal bld	4,58,500	31112122	By Depreciation Alc By Machinery Disposal Arc By Depreciation Arc By Balcid	13,000 2,08,000 25,000 2,12,500
		4,58,500			4,58,500



Depreciation Alc

/ CP/CCIONOTTIC					
Date	Particulars	₹	Date	Particulars	₹
31112119	To Machinery Arc	40,000	31112119	By Pai Aic	40,000
		40,000			40,000
31112120	To Madninery Atc	53,000	31112120	By Palac	53,000
		53,000			23,000
01107121 31112121	To Machinery Atc To Machinery Atc	20,000	3112121	BY PALAIC	28,500
	10 IMACHINERY ATC	38,500			C8. 500
		28,200			58,500
01107122	To machinery Atc	13.000	31112172	By P2LAPC	38,000
31/12/122	To Machinery Atc	25,000		og . xtmc	3 3,000
		000.38			38,000



Machinery Disposal Afc

Date	Particulars	₹	Date	Particulars	₹
	To Machinery Alc To Profit on Sale of Asset — Pal Alc	3,00,000 20,000	01107121	By Bank Alc	3,20,000
		3,20,000			3,20,000
	To Machinery Arc To Profit on Sale of Asset - Pac	22,000	01107122	By Bonk Apc	2,30,000
		2.32.000			2,32,000



Charge in Method of Depreciation

1St Step -> Calculate value of Asset on Date of change 2nd Step -> Assume value calculated in Step1 = New COA

QUESTION (Illustration -10 - Page No. 5.24 ICAI Module)

V

M/s Anshul & Co. commenced business on 1st January 2017, when they purchased plant and equipment for ₹ 7,00,000. They adopted a policy of charging depreciation at 15% per annum on diminishing balance basis and over the years, their purchases of plant have been:

> edans

	Date	Amount ₹	
S	1-1-2018	1,50,000 M ₂	64cors
31112120	1-1-2021	2,00,000 m ₃	logiar

On 1-1-2021 it was decided to change the method and rate of depreciation to straight line basis. On this date remaining useful life was assessed as 6 years for all the assets purchased before 1.1.2021 with no scrap value and 10 years for the asset purchased on 1.1.2021.

Required

V

Calculate the difference in depreciation to be adjusted in the Plant and Equipment Account for the year ending 31st December, 2021.

Value of Plant 2 Equipment on Date of change

Particulars	സ	m2
Date of Purchase	01101117	01/01/18
cost of Acquisition	£7,00,000	₹1,50,000
Olloilit to 31112117 Depn cy Value after been	£1,05,000 £5,95,000	X
Onoille to Bilizine Depri Cy Value after Depri	₹89,250 ₹5,05,750	E 22,500 E1,27,500
Olloily to 31112119 Depticy Value after Depti	£75,863 £4,29,887	£1.08,375
Olloil 20 to 37112120 Depti Cy Value after Depn	£64,483 £3,65,404	£16,256 £92,119





$$m_2 = 92,119 (-) 0 i-e 15,353$$

$$m_3 = 2.00.000 (-)0$$
 i.e 20.000



Muchinery AIC

Date	Particulars	₹	Date	Particulars	₹
01101121	TO Bai bld C365404+92119) To Bank Alc	4,57,523 2,00,000	3112121	By Barciation Alc	96,254 5,61,269
		6,57,523			6,57,523

QUESTION (Illustration - 11 - Page No. 5.25 ICAI Module)



A Machine costing ₹ 6,00,000 is depreciated on straight line basis, assuming 10 years working life and Nil residual value, for three years. The estimate of remaining useful life after third year was reassessed at 5 years.

Required

Calculate depreciation for the fourth year.

Dep P.a =
$$\frac{6.00,000}{10}$$
 (13
es per 10 (13
 $= \pm 60,000$ 7]
Dep n Tot. = $\frac{60,000}{3}$ x3
for 3 year = $\pm 1.80,000$
Value after Dep n = $\frac{6.00,000}{100}$ (2) 180,000

end of 3rd year = 4,20,000



Revaluation of Property, Plant and Equipment



After recognizing an asset initially, the asset whose fair value could be reliably measured could be carried at the revalued amount, being the fair value at revaluation date and reduced by successively accumulated depreciation and successive accumulated impairment losses (permanent decline in value) (if any). If an entity opts for revaluation:

- (a) Revaluations must be made at adequate intervals (say yearly) for ensuring that carrying amount doesn't differ substantially from that which would be determined if fair value at end of the reporting period is used
- (b) In case an item of PPE is revalued, whole class of such PPE to which such asset belongs should be revalued



- (c) In case the carrying amount of an asset increases due to revaluation, such increase should be credited to revaluation surplus and should be accumulated in equity. However, such increase should be recognized in Profit and Loss statement to the extent of reversal of a previous decrease of that asset that was recognized in the Profit and Loss statement.
- (d) In case the carrying amount of an asset is decreased due to revaluation, such decrease should be recognized in the Profit and Loss account. However, such decrease should be debited to the revaluation surplus to the extent of reversal of a previous increase that was recognized in revaluation surplus for that asset.



- (e) The Revaluation Surplus may be transferred directly to retained earnings when the asset is derecognized. This may involve transferring the whole of the surplus when the asset is retired or disposed of. Such transfer from Revaluation Surplus to Retained Earnings cannot be made through the Profit or Loss.
- (f) Alternatively, where there is an upward revaluation, the excess depreciation on account of such upward revaluation may be transferred from Revaluation Surplus to Retained Earnings. Such transfer from Revaluation Surplus to Retained Earnings cannot be made through the Profit or Loss.

It may be pertinent to note that revaluation of Property, Plant and Equipment is an accounting policy choice, and not mandatory under the accounting standards or the Companies Act, 2013.



Revaluation

Increase

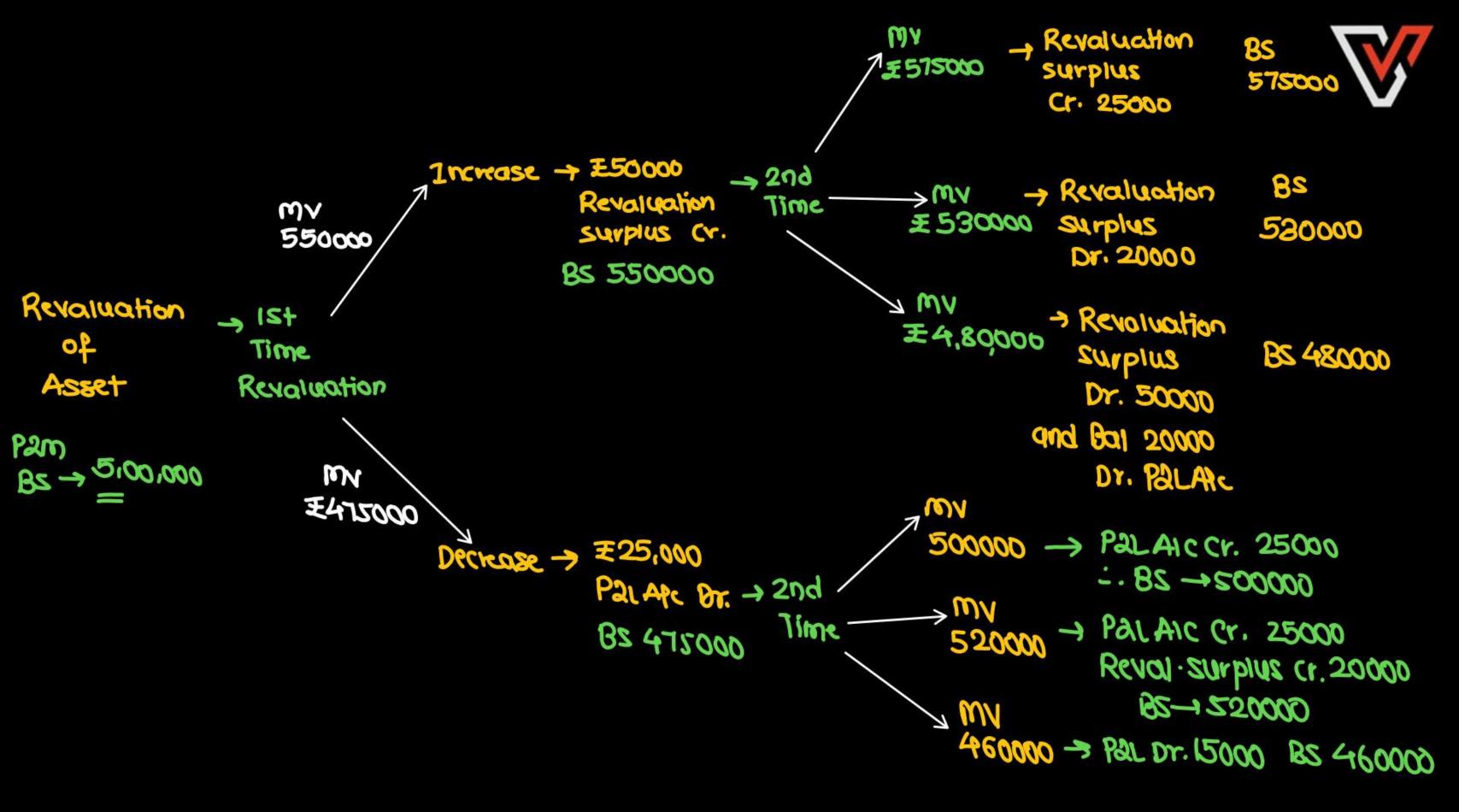
Credited directly to owners' interests under the heading of Revaluation Exceptions : When it is subsequent increase (Initially Decrease)

Charged to the Stetement of profit and loss Exception: When it is subsequent decrease (Initially Increase)

Decrease

recognised in the Statement of
Profit and loss to the extent that it
reverses a revaluation decrease of
the same asset previously
recognised in the Statement of
profit and loss

Decrease should be debited directly to owners' interests under the heading of Revaluation surplus to the extent of any credit balance existing in the Revaluation surplus in respect of that asset



QUESTION (Illustration - 12 - Page No. 5.27 ICAI Module)



A machine of cost ₹ 12,00,000 is depreciated straight-line assuming 10 year working life and zero residual value for three years. At the end of third year, the machine was revalued upwards by ₹ 60,000 the remaining useful life was reassessed at 9 years.

Required

Calculate depreciation for the fourth year

Revised =
$$8.40.000 + 60.000$$

= $9.00.000$
 $= 9.00.000 (-) 0$
 $= 1.00.000$
 $= 1.00.000$
 $= 1.00.000$
 $= 1.00.000$

:. Drpm for =
$$1,20,000 \times 3$$

= $\Xi 3,60,000$



Difference between Tangible and Intangible Assets

Tangible Assets	Intangible Assets
substance i.e., they can be seen and touched,	These are identifiable assets that do NOT have a physical substance, held for use in the production or supply of goods or services, for rental to others, or for administrative purposes.
Tangible Assets have a finite life based on expected usage.	Intangible Assets have a finite life based on contractual terms. In some cases, intangible assets could also have an indefinite life e.g. purchased goodwill.
Useful life is based on expected usage, with no presumption laid down for the same.	Useful life of Intangible Assets is presumed not to exceed 10 years unless evidence exists to the contrary.

Intongible Asset assume max useful life 10 years



Tangible Assets	Intangible Assets	
useful life. In other words, writing off the	Intangible Assets are amortised over the useful life. In other words, writing off the value of intangible assets on an annual basis is known as amortisation.	
Examples include Property, Machinery, Vehicles etc.	Examples include software, streaming rights, landing rights, trademarks, patents etc.	





The concept of amortisation in case of intangible assets is similar to the concept of depreciation in case of tangible assets. In other words, 'depreciation of an intangible asset' is called AMORTISATION.

Amortisation can be defined as 'the systematic allocation of the depreciable amount of an intangible asset over its useful life'. Depreciable amount is the cost of an asset less its residual value.

Useful life is either:

- (a) the period of time over which an asset is expected to be used by the enterprise; or
- (b) the number of production or similar units expected to be obtained from the asset by the enterprise



Residual value is the amount which an enterprise expects to obtain for an asset at the end of its useful life after deducting the expected costs of disposal.

The depreciable amount of an intangible asset should be allocated on a systematic basis over the best estimate of its useful life. Amortisation should commence when the asset is available for use. It is presumed that the useful life of an intangible asset will not exceed ten years from the date when the asset is available for use unless evidence exists to the contrary. For instance, given the rapid changes in technology, computer software and many other intangible assets are susceptible to technological obsolescence. Therefore, it is likely that their useful life will be short. Similarly, intangible assets with contractual rights for a period exceeding ten years, will be amortised over such extended period rather than the presumed period of ten years.



Similar to depreciation, the amortisation method used should reflect the pattern in which the asset's economic benefits are consumed by the enterprise. If that pattern cannot be determined reliably, the straight-line method should be used. The amortisation charge for each period should be recognised as an expense unless permitted or required to be included in the carrying amount of another asset. Given the nature of intangible assets, the residual value of an intangible asset should

- (a) there is a commitment by a third party to purchase the asset at the end of its useful life; or
- (b) there is an active market for the asset and:

be assumed to be zero unless:

- (i) residual value can be determined by reference to that market; and
- (ii) it is probable that such a market will exist at the end of the asset's useful life.



The amortisation period and the amortisation method should be reviewed at least at each financial year end. If the expected useful life of the asset is significantly different from previous estimates, the amortisation period should be changed accordingly. If there has been a significant change in the expected pattern of economic benefits from the asset, the amortisation method should be changed to reflect the changed pattern.

QUESTION (Illustration - 13 - Page No. 5.31 ICAI Module)



Kumar R&D Co. registered a patent (the patent meets the criteria of an intangible asset) on 1st July, 2021 developed at a cost of ₹ 28,00,000 and spent ₹ 2,00,000 towards legal fees and registration. The patent is granted for a period of 10 years. The books are closed on 31st December every year.

Required

Show the Patent Account and Amortisation Account for the year 2021 and 2022.

Tot. cost = 28L + 2L

Amortisation =
$$30,000,000$$
 (*) 0

P.a

P.a

i.e £3,00,000

P.a.

QUESTION (Illustration - 14 - Page No. 5.32 ICAI Module)



Prime Streaming Co. acquired the streaming rights of a movie for `18,00,000 with the contracted duration of the streaming period being 10 years. At the beginning of the fourth year, based on the decline in viewership, Prime Streaming Co. decided to stream the movie only for the next 5 years.

Required

Calculate amortisation for the fourth year.

$$\frac{18.00,000}{10} = \pm 1.80.000$$

$$39 cor = 180000 \times 3$$
Amortisation
$$= \pm 5.40.000$$

$$\therefore Value of Streaming Right = 18.00.000 (+) 5.40.000
$$= 12.60.000$$$$

