





- Depreciation gets reduced every year
- Rate can be calculated using formula (90% not asked in exam) :-

- Rate = 
$$\left(1 - \sqrt[n]{\frac{\text{Scrap value}}{\text{Cost}}}\right) * 100$$

n = Life of Asset

→ Salvage Value is of no use in WDV method (Reason : Rate of Depreciation is given)

#### © Examples :

1) Asset of Rs.100, Rate = 10%, SV = Rs.10 (TCV), Find Depreciation for 5 yrs. Way 1: Using Table:-

Years	Operating Balance	Depreciation	Closing Balance
1	100	10	90
2	90	9	81
3	81	8.1	72.9
4	72.9	7.29	65.61
5	65.61	6.561	59.049

#### Way 2 : Calculator :-

(1 – Rate of dep.) * cost of asset = = =	Closing Balance

(1 - Rate of dep.) * cost of asset	1 <sup>st</sup> Year Depreciation
= }	-



## ACCOUNTING

# CONCEPT 16 : CHANGE IN METHOD OF DEPRECIATION

- → Commonly followed method : SLM, WDV
- Depreciation method should be followed consistently, but change in method is permitted
   1) Due to change in statute / law.
  - 2) Due to change in AS.
  - 3) For better presentation
- $\Rightarrow SLM \rightarrow WDV \text{ or } WDV \rightarrow SLM.$
- $\rightarrow$  Difference should be adjusted in P&L a/c.
- © Example :
  - Asset cost = Rs100, Current Method = SML Rate of Depreciation = 10%, New Method = WDV Rate = 15%

Method is changed in years 3.

Year	Particulars	SLM	WDV
0	Asset	100	100
1	Less : Depreciation	10	15
		90	85
2	Less : Depreciation	10	12.75
		80	72.25

Charge Depreciation on '80'  $\rightarrow$  Prospective method not allowed

Sr. No.	Particulars		Rs		
i)	Current Balance		80		
ii)	Show Asset Balance		72.25		
iii)	Asset reduced by		7.75		
Sr. No.	Particulars	Dr	Cr		
i)	P&L A/c Dr.	7.75			
	To Asset A/c		7.75		
Now ch	Now charge depreciation on 72 25 @ $15\% = Rs 10.8375$ i.e. Retrospective method				



# ACCOUNTING

# CONCEPT 19 : REVALUATION OF ASSET

 $\rightarrow$  Revalued amt. is to be written off over its remaining useful life.

E.g. Asset costing Rs.1, 00,000, Useful life – 10 years. In  $3^{rd}$  year asset revalued upward by Rs.20, 000 Calculate depreciation for  $3^{rd}$  year

Sr. No.	Particulars	Rs
i)	Cost	1,00,000
ii)	(~): Depreciation 1 <sup>st</sup> years	(10,000)
iii)	(~) : Depreciation 2 <sup>nd</sup> years	(10,000)
iv)	WDV	80,000
v)	(+) : Upward Revaluation	20,000
vi)	Revised WDV (iv + v)	1,00,000

Den for 3rd years -	1,00,000
Dep. 101 5th years -	8
=	<u>Rs12, 500</u>

# CONCEPT 20 : CHANGE IN LIFE OF ASSET

- $\rightarrow$  Estimation of life which may be revised in future
- $\rightarrow$  The unamortized balance should be written off over useful life i.e. prospective

## <u>Adjustment</u>

1) E.g. Asset ~ Rs.2,00,000. Life - 10 years. SLM method. In 5th years life is expected 12 years

Step I: Depreciation for 4 years & WDV				
Sr. No.	Particulars	Computation	Rs	
i)	Depreciation	(2,00,000/10 years)	20,000	
ii)	WDV at the end of 4 <sup>th</sup> year	[2,00,000 - (20,000*4)]	1,20,000	
Step II : Depreciation for 5~12 years & WDV				
iii)	Depreciation	(1,20,000/8 years)	15,000	
iv)	WDV at the end of 5 <sup>th</sup> year	(ii ~ iii)	1,05,000	

# CONCEPT 21 : UNCOMMON METHODS

Sum of Years digit method:~

- $\rightarrow$  This method is useful when rate of dep. is not given but depreciation is required reducing.
- $\rightarrow$  Combination of SLM (rate of dep. not given) & WDV (dep. is reducing).
- → Depreciation is calculated in the ratio of remaining life of the asset in the beginning of that year to the sum of digits of the total of all the years.
- → <u>Formula :~</u>

(Cost – Scrap value) x	Remaining life including current years		
(Cost – Scrap Value) x	Sum of years of digit =	$n\frac{(n+1)}{2}$	

1) Eg. Cost = Rs1,00,000 life – 10 years. Calculate depreciation for 4 year

Year	Computation	Amount of Depreciation
1	[1,00,000 * (10/55)]	18,182
2	[1,00,000 * (9/55)]	16,364
3	[1,00,000 * (8/55)]	14,545
4	[1,00,000 * (7/55)]	12,727



Year	2 =	20.	.000	Hrs.	Year	3 =	18	.000	Hrs.
I COIL	4	40,	,000	TTO.	I Cui	U	10	$, \circ \circ \circ$	III.

Year	Computation	Amount of Depreciation
1	[5,00,000 * (10,000/1,00,000)]	50,000
2	[5,00,000 * (20,000/1,00,000)]	1,00,000
3	[5,00,000 * (18,000/1,00,000)]	90,000

### CONCEPT 23 : SINKING FUND /DEPRECIATION FUND INVESTMENTS [TQ.1 (ii)]

- → In addition to depreciation, every year an equal amount together with interest earned is invested outside the business
- <sup>©</sup> OBJECTIVE ~ To have *sufficient Fund for replacement* when useful life will be over.
- → Amount of investment is ascertained by using Annuity Table.

### Journal Entries:~

Sr. No.	Particulars		Dr	Cr			
Year 0:	At the beginning of the years :						
1)	Asset A/c	Dr.					
	To Cash						
2)	At the end of 1 <sup>st</sup> year :						
a)	Depreciation A/c	Dr.					
	To Sinking fund (Similar to Al	D a/c)					
	(Asset is shown at cost)						
b)	P&L A/c	Dr.					
	To Depreciation						
c)	Sinking Fund Investment A/c	Dr.					
	To Cash						
3)	At the end of year 2 :						
a)	Interest Received						
	Bank A/c	Dr.					
	To Sinking Fund A/c						
b)	Depreciation A/c	Dr.					
	To Sinking Fund A/c						
c)	P&L A/c	Dr.					
	To Depreciation						
d)	Sinking Fund Investment A/c	Dr.					
	To Cash						

ACCOUNTING 5. Depreciation								
	4)	At the end of last year :			1			
	a)	Interest Received						
		Bank A/c	Dr.		_			
		To Sinking Fund	A/c		-			
	b)	P&L A/c	Dr	,	-			
		To Depreciation	A/c		-			
	c)	Sinking Fund Investmen	t Sold :					
		Cash A/c	Dr	•				
		Sinking Fund A/c (Loss)	Dr.					
		To Sinking Fund	Investment A/c					
		To Sinking Fund	A/c (Profit)					
	d)	Asset balance transfer to	o Sinking Fund					
		Sinking Fund A/c	Dr.					
		To Asset A/c (Or	iginal Cost)					
	5)	Balance in Sinking Fund	[					
	a)	Credit Balance						
		Sinking Fund A/c	Dr	•				
		To General Reser	ve					
	b)	Profit & Loss A/c	Dr.	,				
		To Sinking Fund	A/c					
<ul> <li>CONCEPT 24 : FACTORS CONSIDERED FOR CALCULATION OF DEPRECIATION [TQ.3]</li> <li>✓ Cost of asset including expenses for installation, commissioning, trial run, etc</li> <li>✓ Estimated useful life of the asset and</li> <li>✓ Estimated scrap value, if any of the asset.</li> </ul>								
	CONCEPT 25 :	DISTINCTION BETWE	EN SLM & WD	V METHOD OF DEPRECIA	ION [TQ.1]			
Sr. No	Factors	Straight Line Me	ethod	Written Down Value Method				
[i]	Depreciation c	harge Equal throughou	at the life.	Reduced over the years as ass	et grows old.			
[ii]	Depreciation o	f Asset Asset can be full	y depreciated	Asset can never be fully depreciated				
[iii]	Total Charges	Will not be unife	orm	More or less evenly distributed throughout the life of asset				
CONCEPT 26 · REVISION OF ESTIMATED LIFE OF PRE								
The maniful value & upoful life of agent should be reviewed at least at and of each financial ware and								
$\Rightarrow \text{ If it differs from previous estimates, it is accounted as a change in an accounting estimate}$								
<ul> <li>→ Whenever there is a revision in the estimated useful life of the asset, the unamortised depreciable amount should be charged over the revised remaining estimated useful life of the asset.</li> </ul>								

### ACCOUNTING

## CONCEPT 27 : REVISION OF ESTIMATED LIFE OF PPE

- ✓ If there is an *upward revision first time*, then amount of appreciation is debited to Asset A/c& Credited to Revaluation Reserve.
- ✓ If there is *downward revision* then P&L is debited and Asset Account is credited.
- ✓ If asset was *earlier revalued downward* and *later on revalued upward* then appreciation to extent of earlier downfall is *credited to profit and loss account*.
- ✓ If an asset was *earlier revalued upward* and then *later on it was revalued downward* then the downfall to the extent of earlier appreciation is *debited to Revaluation Reserve Account*.
- ✓ In case the *revaluation has a material effect* on the amount of depreciation, the same should be *disclosed separately* in the year in which revaluation is carried out.

# CONCEPT 28 : PROVISION FOR REPAIRS AND RENEWALS

- Expenditure incurred for repairs, renewals and maintenance on plant and machinery may vary over the years during the working life.
- > Thus, for equalizing the charge of repairs and renewals, a Provision for Repairs and Renewals Account is opened beforehand.
- Average of this expenditure is debited to Profit and Loss Account and credited to Provision for Repairs and Renewals Account irrespective of actual expenses incurred every year.
- The balance in provision for Repairs and Renewals Account is carried forward and in the end or on sale of the asset, the account is closed by transfer to the Asset Account for any balance left.

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