Operational Level 1

Fundamentals of Financial Accounting

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	Activity-Based M	lethods:								
1	Hours Method									
2	Unit Production Method									
3	Kilometers Meth									
	Hours Method									
	Depreciation = Hours Worked x Rate of Depreciation per Hour									
	Rate of Depreciation per Hour = (Total Cost - Scrap Value) / Life in Hours									
	Unit Production Method									
	Depreciation = Units Produced x Rate of Depreciation per Unit									
	Rate of Deprecia	tion per U	nit = (Tot	al Cost -	Scrap Va	lue) / Life	e in Units			
	Kilometers Method									
	Depreciation = Kilometers Run x Rate of Depreciation per Kilometer									
	Rate of Deprecia	tion per K	ilometer =	= (Total C	ost - Scra	ap Value)	/ Life in	Kilometer	s	

Example for Activity Based Methods:

A machine was acquired on Feb 15, 2015 at a cost of Rs.530,000 with scrap value of Rs.30,000.Machine has useful life of 250,000 units and 125,000 hours.

Required:

Compute depreciation charge for machine under each case:

1) The company uses unit production method and machine produced 40,000 units in 2015, 50,000 units in 2016, 30,000 units in 2017,65,000 units in 2018, 35,000 units in 2019 and 30,000 units in 2020.

2) The company uses hours methods and machine is used 80,000 hours in 2015, 25,000 hours in 2016, 13,000 hours in 2017 and 7,000 hours in 2018



Case n									
Schedule for Depreciation Charge Unit Production Method Depreciation = Units Produced x Rate of Depreciation per Unit Rate of Depreciation per Unit = (Total Cost - Scrap Value)/Life in Units =(530,000 - 30,000)/250,000 = Rs.2 per unit									
Year	Computation	Depreciation Expense	Accumulated Depreciation	Book Value					
				530,000					
2015	40,000 x 2	80,000	80,000	450,000					
2016	50,000 x 2	100,000	180,000	350,000					
2017	30,000 x 2	60,000	240,000	290,000					
2018 2019	65000 x 2 35000 x 2	130,000 70,000	370,000 440,000	160,000 90,000					
2019	30000 x 2	60,000	500,000	30,000					
2020 50000 x 2 500,000 500,000 500,000 500,000 Case no 2:									
Schedule for Depreciation Charge Hours Method Depreciation = Hours Worked x Rate of Depreciation per Hour Rate of Depreciation per Hour = (Total Cost - Scrap Value)/Life in Hours =(530,000 - 30,000)/125,000 = Rs.4 per hour									
Year	Computation	Depreciation Expense	Accumulated Depreciation	Book Value					
				530,000					
2015	80000 x 4	320,000	320,000	210,000					
2016	25000 x 4	100,000	420,000	110,000					
2017	13000 x 4	52,000	472,000	58,000					
2018	7000 x 4	28,000	500,000	30,000					