PROBLEMS UNDER HIRE PURCHASE SYSTEM

Illustration: United Publishers purchased a machinery on the Hire purchase system costing Rs.3,00,000on 1st Jan 2013 from Epson Ltd and paid Rs.60,000 immediately. The balance was to be paid by the annual instalment of Rs.80,000 plus interest at 5% p.a. They depreciate the machinery at 10% on original cost method. Prepare ledger accounts in the books of United Publishers and Epson Ltd.

Note: in the absence of any instruction regarding the method to be followed, Cash Price method is followed.

The question has the following information: cash price-Rs.3,00,000; Down payment-Rs.60,000; rate of interest-5% p.a.

The question does not have the following elements: Hire purchase price, Instalment amount. So given that the 'balance was to be paid by the annual instalment of Rs.80,000 plus interest at 5% p.a.' it means that interest is not included in the instalment amount of Rs.80,000. Interest is calculated on the unpaid balance of cash price every year. Interest is added with the instalment amount to ascertain the total amount of each instalment.

Calculation of Total number of Instalments:

Balance of cash price after down payment = Cash price of the machinery-Rs.3,00,000 _ - Down payment Rs.60,000= Rs.2,40,000.

Net instalment amount = Rs.80,000

 \therefore No of instalments = Rs.240,000 \div Rs.80,000 = 3

Statement showing interest and gross instalment amount

	Cash price on 1st Jan [Rs.]	Interest for the year	Instalment		
		[Rs.]	Cash price [Rs.] (a)	Interest [Rs.] (b)	Total [Rs.] (c = a+b)
2013	3,00,000				
- DP	<u>60,000</u>				
	2,40,000	2,40,000 x 5%= 12,000	80,000	12,000	92,000
2014	2,40,000 - 80,000 =	1,60,000 x 5%= 8,000	80,000	8,000	88,000
	1,60,000				
2015	1,60,000 - 80,000 = 80,000	80,000 x 5% = 4,000	80,000	4,000	84,000

Ledger accounts in the books of United Publishers [Hire Purchaser]

Dr. Cr. Machinery a/c

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Year	Particulars	Rs.	Year	Particulars	Rs.
1/01/ 13	To Epson Ltd a/c (CP)	3,00,000	31/12/13	By Depreciation a/c	30,000
			31/12/13	By Balance c/d	2,70,000
		1,40,000			1,40,000
1/01/14	To Balance b/d	2,70,000	31/12/14	By Depreciation a/c	30,000
			31/12/14	By Balance c/d	2,40,000
		2,70,000			2,70,000
1/01/15	To Balance b/d	2,40,000	31/12/15	By Depreciation a/c	30,000
			31/12/15	By Balance c/d	2,10,000
		2.40,000			2,40,000
1/01/16	To Balance b/d	2,10,000			

Dr. Epson Ltd a/c [Hire Vendor]
Cr.

Year	Particulars	Rs.	Year	Particulars	Rs.

1/01/ 13	To Bank a/c (DP)	60,000	31/12/13	By Machinery a/c	3,00,000
31/12/13	To Bank a/c (Instalment)	92,000	31/12/13	By Interest a/c	8,000
31/12/13	To Balance c/d	1,60,000			
		3,12,000			3,12,000
1/01/14	To Bank a/c	88,000	31/12/14	By Balance c/d	1,60,000
31/12/14	To Balance c/d	80,000	31/12/14	By Interest a/c	8,000
		1,68,000			1,68,000
1/01/15	To Bank a/c	84,000	31/12/15	By Balance c/d	80,000
			31/12/15	By Interest a/c	4,000
		84,000			84,000

Dr.

Interest a/c

Cr.

Year	Particulars	Rs.	Year	Particulars	Rs.
31/12/13	To Epson Ltd a/c	12,000	31/12/13	By P/L a/c	12,000
		12,000			12,000
31/12/14	To Epson Ltd a/c	8,000	31/12/14	By P/L a/c	8,000
		8,000			8,000
31/12/15	To Epson Ltd a/c	4,000	31/12/15	By P/L a/c	4,000
		4,000			4,000

Dr. Cr. Depreciation a/c

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Year	Particulars	Rs.	Year	Particulars	Rs.
31/12/13	To Machinery a/c	30,000	31/12/13	By P/L a/c	30,000
		30,000			30,000
31/12/14	To Machinery a/c	30,000	31/12/14	By P/L a/c	30,000
		30,000			30,000
31/12/15	To Machinery a/c	30,000	31/12/15	By P/L a/c	30,000
		30,000			30,000

Ledger accounts in the books of Epson Ltd. [Hire Vendor]

Dr.

United Publishers a/c

Cr.

Year	Particulars	Rs.	Year	Particulars	Rs.
1/01/13	To Hire Sales a/c	3,00,000	1/01/13	By Bank a/c	60,000
31/12/13	To Interest a/c	12,000	31/12/13	By Bank a/c	92,000
			31/12/13	By Balance c/d	1,60,000
		3,12,000			3,12,000
1/01/14	To Balance b/d	1,60,000	31/12/14	By Bank a/c	88,000
31/12/14	To Interest a/c	8,000	31/12/14	By Balance c/d	80,000
		1,68,000			1,68,000
1/01/15	To Balance b/d	80,000	31/12/15	By Bank a/c	84,000
31/12/15	To Interest a/c	4,000			
		84,000			84,000

Dr.

Hire Sales a/c

Cr.

Year	Particulars	Rs.	Year	Particulars	Rs.
31/12/13	To Trading a/c	3,00,000	31/12/13	By United Publishers a/c	3,00,000
		3.00.000			3.00.000

Dr

Interest a/c

Cr.

Year	Particulars	Rs.	Year	Particulars	Rs.
31/12/13	To P/L a/c	12,000	31/12/13	By United Publishers a/c	12,000

		12,000		12,000
31/12/14	To P/L a/c	8,000	By United Publishers a/c	8,000
		8,000		8,000
31/12/15	To P/L a/c	4,000	By United Publishers a/c	4,000
		4,000		4,000