

Q. => calculation of cash price when instalments are payable at the end of two years and interest is charged on two yearly rates,

Ramesh purchased an asset on hire-purchase system. He paid Rs 1000 down and 1200 each at the end of 2nd, 4th and 6th year. Interest is charged @ 10% P.A. on two yearly rests. Calculate amount of interest and cash price included in each instalment.

Solution:- उपरोक्त Question में किराने का मुआवजा दो वर्ष के अन्त में किया जाता है तथा ब्याज की दर 10% वार्षिक है। ब्याज का गणना द्विवार्षिक है अतः प्रत्येक दो वर्ष का ब्याज = $\frac{100 \times 10}{100} \times 2/1 = 20$ रु होगा और 100 रु मुआवजे के लिए किराने का 211 रु (100+20) 120 रु होगा। 2 रु 5 मुआवजे तथा ब्याज का गणना निम्न प्रकार होगा।

	Instalment	
	Interest	Principal
Third Instalment - Rs 1200		
Interest = $\frac{1200 \times 20}{120} = 200$		
Principal = $1200 - 200 = 1000$	200	1000
Second Instalment = 1200		
Up to date outstanding amount 1000		
Total $1200 + 1000 = 2200$		
Interest = $\frac{2200 \times 20}{100} = 440$		
Principal = $1200 - 367 = 833$	367	833

First Instalment = 1200		
Up to date outstanding amount =		
total $1200 + 1000 + 833 = 3033$		
Interest = $\frac{3033 \times 24}{12}$ = 505		
Principal $1200 - 505 = 695$	505	695
Down payments		1000
	1072	3,528

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