## HW - Chapter 7 - Capital Budgeting- Q8

(a & b) Computation of NPV at 15% discount rate

Year	Cash flow	DF @ 15%	Present value	DF @ 10%	Present value
1	(10,00,000)	0.870	(8,70,000)	0.909	(9,09,000)
2	2,50,000	0.756	1,89,000	0.826	2,06,500
3	3,00,000	0.658	1,97,400	0.751	2,25,300
4	3,50,000	0.572	2,00,200	0.683	2,39,050
5 - 10	4,00,000	2.163	8,65,200	2.974	11,89,600
PV of Inflows			5,81,800		9,51,450
(-) PV of outflows			(7,00,000)		(7,00,000)
Net Present Value			(1,18,200)		2,51,450
			Accept		Reject

## (c) Calculation of IRR:

IRR =  $10 + 2,51,450 \div 369,650 \times 5 = 13.40\%$ 

## (d) Computation of Pay-back period of the project:

Payback Period = 6 years:

- Rs. 7,00,000- Rs. 10,00,000 + Rs. 2,50,000 + Rs. 3,00,000 + Rs. 3,50,000 + Rs.

4,00,000 + Rs. 4,00,000 = 0