6. Capital Budgetino trade chestines of the period. pay Back method net present value Discounted cash flow method: CInternal route Det: - capital is represented by assert, management of assert, means enagement of capital capital budgeting therefore capital expenditure decision concerning acquiridion, extension, expension development of fixed arrests. Capital budget refers to aequision and development of fixed accept in operations capital budget method & Techniques: popular techniques of capital charified as under: are part bark classification RUGAR EVXXIII SOM of capital Accounting rate of return budgeting rechaiques (ARR) Discount carl flow Net present value method Internal rate

I. pay back period 1 payout period Method: It is one of the traditional meta Evalution of investment proposals under this metro is a simple and easy there pay Back for po out period is no of years required to recover the original Investment of Milliam + calculation of pay-Back period: If annual cash flow is constant even the following formada will be applied: payback period = original cost of the project annual ceuh from NOTE: - Annual cash in flow , It is the annual earning or profit before depreciation and after taker is control of his high problems: Island is Valle 1) A cost projects costs Rs1-500,000 and yeilds an annual cash in flow of Ry-100,000 for 9 year calculate it's pay bare period Sof: paybout period = original out of Land amual each in flows stor / 100,000,000 1,00,000

madel: 2 if annual cash flow is not constant) uneven under this method paybout period calculate by adding up the coun in flow until the total is equal to the initial investment (outlay) in the project,

2) Determine a pay Back period for a project which requires a cash buttary of 1811-24000 and generates couch in flow of 1811-4000, 8000, 8000, 100000, in the firstisecond, 3rd, 4th years A MANAGER DE

respectively

of years	Annual cath in flow	Accumulated Annual (and in How (AACI)
1/2/	4000	4000
2	8000	120000
3	1 Booo	2000
1014	(1) (0000)	26000

the project 3 years AACI of 44eur - AACI of

1 (COOD) + (COOD)

z 3.4 yean.

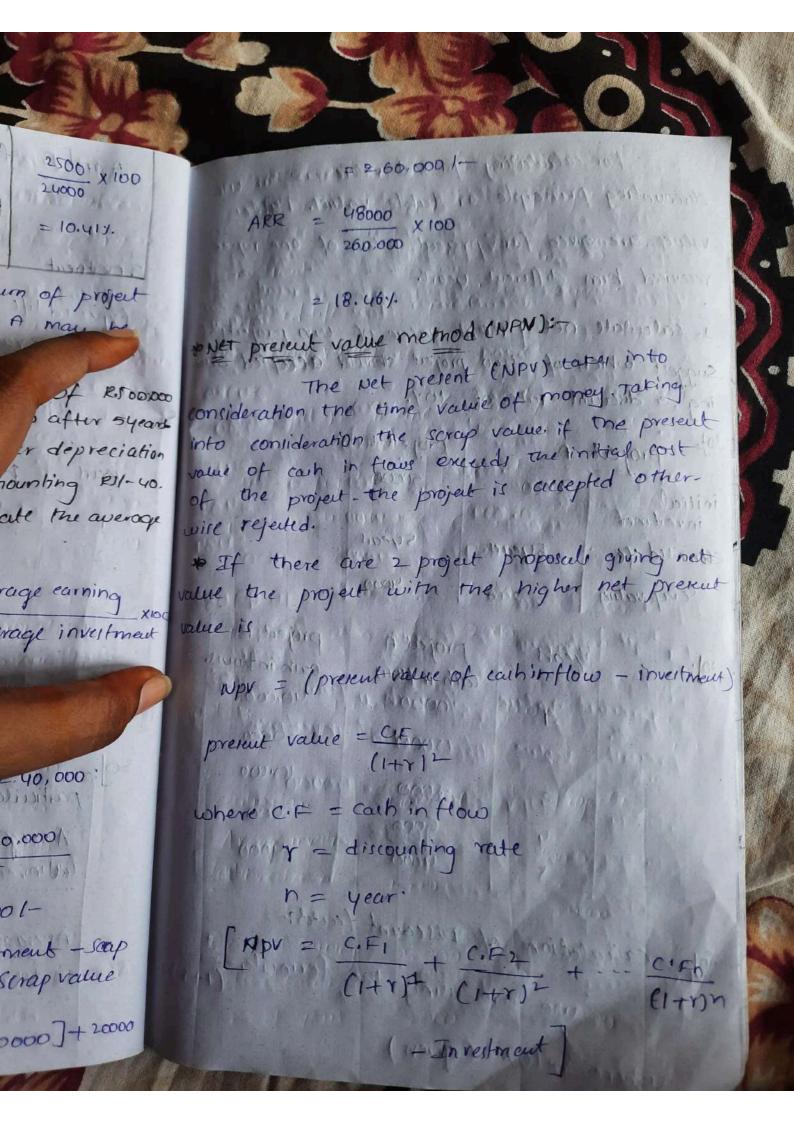
* Average rate of return: - Accounting rate of return): The ratio of annual profit after taxes to the werage investment is know as average rate of returns. Average investment is supposed to be equal to half of the original investment ARR = Average unnual profits Average investment loviginal investment 100 John John State of Coopy of ARR ! = Average carning x100 A Provincy investment * special features of ARR Methods: a Average investment is supposed to be half of the total investment (capital outlay) if there is no scorap value. In case of Grap value, the average invertment will be 1/2 of the (total invertment-Scrap value) + Scrap value. If there is additional working capital the average invertment will be = 1 (total Firsttaneut scrap value) + scrap value + additional working capital, I calculate the average rate of return project Austria Manger - 10000 1

A and B from	the four	wing details.
proj	ject A	project &
Investment	20,000 64ears	48,000
(no solverge value)	in the time of the	Agrical my fresh and

project net income Cafter depreciation and				
	tances)	the police		
years.	project A	project 8		
the appear	4000	and teader thinks odos		
2	3000	GO 6000 L COURS COURS COS		
3	3000	rate of the second ocopy		
4	2000	1/11 5000 11 Junion -1/05		
5	- 0/1	2000		
70tal:	12000	20000		

particular.	project A	project B
Average investment	z 20000 = 15000	48000
10/20		z 24000
Averages earning	12000	20000
z total earning	2000	= 2500
no. of years	= 2000	= 2,00

2000 x 100 2500 x 100
ARR 15000 X 100 24000 X 100
Las Carlos Carlo
The average rate of return of project
A is higher and hence project A may be
prefered.
2) project A requires an investment of RSOODOR and has a scrap value of Pol- 20,000 after syears
Como value of Pri- 20,000 after 54ears
and has a strap with mobile after depreciation
It is excepted to yeild profit after depreciation
and toyel during the syrais
000, 60,000, 70000, 50000, 20000, calculate the average
Overega egypin
So]:- Average rate of return = xio
So]:- Average rate of return = Average investment
where total earning for 5 years = 400004,60000+
70000 + 50000 + 20000
2 40,000 = 2 40,000
Average earnings = 2,40,0001
man (man thrist will)
1 2 48000 L-
Average investment = 1 (total investment - scap value) + scrap value
value) + Scrap value
==== (500000 - 20000] + 2000



For calculating present value, we can use discounting principle or tuble values. Tubles values are given for present values of one rupee values are given for present values of one rupee an values him different years.

a calculate net present value of two projects & suggest which of two project should areaepted aumining a discount rate of 104.

Sofe project	projett B	
initial investment	20000	50000
commated life	5years	5 years
Scrap values	2000	4000

sol-	years	project A cash in How	project B coun in flows.
King	4	100001	40,000
J. Jugah	2/11/	15000	11130000
	31,1	G002	(0,000
	4 %	6000	15000 101
	5	4000	14000

Sof: calculation of Discount factor? we are using the formula (1+1)m

where 12/01/1 (given)

For ast year = 1 = 0.909 (present value of dise of for 25%)

For 2nd year = 1 0.826

For 3rd year = 1 = 0.751

For 4th year = 1 60.683

For 5ty year = 1 (1+0.1)5 = 0.620

calculate of NPV for project A:-

years	cashinflow	present value of RsH1Q	present value of coun in flow.
1800	10000	0.409	9090
My Au	15000	0.816	12390
3	8000	1 0. ±21 0. 10.	16808
4	6000	6 683	4098
5	yooo	0.620	2484
5	2000	0.624	12429
		Total	35362

present value of cash in flows = 35,312

present value of initial investment = 30,000

NPV = 35,312 + 30000 calculation of NPV for project B3 0.909 40000 0.826 30000 24780 3/1/0.731 0.683 3415 5000 108 0, 621 4000 0.621 2484 4000 For yet year & many walking

present value of cash in flow = 77083 present value of initial invertment = 40,00

NPV =177033 - 90000

* 4. Internal Rate of Return Method (IRR)

1. Internal rate of the return for an investment proposal is that discount rate which equales the present value of future outh flows with the present value of each out flows of an investment when compared with the IRR with a required rate of return. Internal rate of Return is more than required rate of veturns, the project is accepted elle Reject. my ration Transfer anders

1) A form has an investment opporunity involving RI-50000. The cost of capital is 10% from the details given below find out the internal rate of return and see whether the project is acceptable

The Hoper to Jan 18

earl flow years: 5000 cash flow year 2: 10000 cash flow year 3: 15000 cut flow yeary: 25000 cash flow year 5 = 30000

Discour	nt feutor	Mills Q	MARDY	
years	10%	15%	20%	25%.
	0.909	0,870	0.833	0.800
2	0.829	0.576	0.694	0.640
3	0.751	0.658	0.579	0.512
4	0.603	0,572	0,482	0.410
5	0.621	0.497	0.402	0.318

Care property cong of the spain forther the x Sof. As the discount Rate are from 10% to 29%. The internal rate return may be in bliw 10% and 25%. As it with is trail and error method we can start with any sale Let us try with 15% and 20% calculation of IPP:

years	cath in flour	Present feutor. @ 151/	Discount cash in flow.
+++++	5000	0.890	4350
1.2	10000	0.756	7560
3	15000	0.653	9870
1/4 1/	125000	0.572	141200
5	/ 30000	1 1 6:497 1 11	14910
1	Markin	10tali-	50.990

Discount faites

relue feuton @ 20%.	Discount cathinflow.
0.833	4165
0.694	6940
0.579	8685
0.482 010.0	12050
0.402	12060
Total:	43 900

The present value of cash in flow at 154 g. 50,990 which is more than initial invertment g. 50000 and at 204, 443,900 which is lev- than the required one thence, the actual IRR he in she 15% and 20%, and can be computed way of intercolation TRR = 27 PI-PIXD where 1 = lower Distounts rate 15% Pi = present value of earning at Lower rate 21 50990 P2 = present value of earning ext night rate R1 43,900 Q z cietual in Westment R1-50000 D = Differenter in rate of return 1.
204. -154 = 5% 50990 - 43,900 15 + 1990 X5 Capito Milling Springs As the internal rate of Return 15% is above the cost capital is 10%, so the project is

* Patro Analysis: what is ration A ratio is simply a number en ssed in terms of another. It refers to the numerical relationship blue two variables which are comparable it is an empreuion derived by deviding one variable by the other to pring to out It is a statistical measure that provide an insight into relationship blu two variables. Ratio can be expressed in terms of percentages and quotients also. Types of Ratios: Based on their nature, the ratio can boardly be callified into 4 categories. 1. Liquidity voition - oprod 2. Activity ratio 3. capital shutture ratio 4. profitability ratio. Liquidity Ratio :-=) current ratio =) quick ratio con liquidity rution (on) Acid test ratio

current l'abrities accept includes the following 3, Bills Recievables 4. stock 6. Debtors 7. Marketable secu current l'abilities:-The current liabilities are as follows (2) bills paupbles (3) Bank overdraft outstanding expenses () () (5) income Receved in advance. 2. Quick ratio: - or liquidity ratio. Uquid Auerts /quickasset where aurick auch = correct - [stock + prepaid

3. From the following balancing sheet of xyz company calculate. 1) current ratio Balancing sheet xyz.com 2) ciquidity ratio 1td at on 31-12-2001	npa
Prirrent ratio Balancing Sheet X42. Co.	npa
1) called all on st	
2) Liquidity ratio Balance sheet But the state of the s	
Balance	
preferance share 1000 plantiq mechinany	250
capital equidite share 150 funiture 4 capital	00
general reserve 400 stock 25	0
Debenture 400 Applito	
can in hands 1:	25
outstanding 50 Capenies 50 Marketable	0
profit & low Alc 100 Security	-5
Bank Ioan 200	
long run	1
from the above bal sheet ides	atify
the current trabilities.	1
The current much include stock 250 aurent alc + 250 + CI + 125 + = 9281-	

The current liability includes creditors + bank over + outstanding + overcurrent ration Current auch Current liabilities drops. + weeks probate + state probations (smiles) 11 0000 + 12 318 + 00000 316 16 @ liquidity ratio = liquidi Arrett - Istock + prep = 905 - Stock + prepaid z 966-[300] = 625 Justices (100) and another liquidiratio 2 625 <u>300</u> 2. The following an extract of the bls of a compute current company during the last year compute current ratio and quick ratio. land and Builds 50000 land and mechinary 1,00,000 furniture and fixtures 25000 closing stock ! 25000

Sundary debtord 12500 wages prepaid 2500 Sundary Creditors 8000 (i) From the above valo the convent insets includes closing stock + sundary debtors + wager prepuid 25000 + 12500 + 2500 m 11/01/1 2 40000 History current liabilities includes sundany creditals + sent outstanding = 8000 + 2000 Current Acrets Therefore current ratio = current mabilities the following on 103 1534 Just Catal Muetos plans plans Quicle reutio = currient mabilities = currents Assets - (stock + Quick Buet (25000 + 2500) 2 12500 1001000

Quick ratio = 12500 | 1900

= 1.251

* Final accounts:

2 Chellenine

The process of preparing final Alice are sole propritors of are two stages

2. trading and profit & loss account.

2. Balance sheet

1. Trading Account:

Jenet Level

motoritor

Dr	Trading	Actounts	11000		
particular	RI	particular	PI INDO		
To opening stock	XXX	By sales t-) sale	SVETE		
purchases return	xxx	By clowing stock	Doll SX		
no wages	×××	By grow loca	CONTRACTOR OF THE PARTY OF THE		
70 comiage	xxx	CTransfer to	The state of the s		
10 purchased	4/4	Plc Ale)			
To fuel and power	XXX				
10 direct Expenses	XXX				
To group profit	XXX				
CTHAnsfer to profit/low	Xxxx	La District	XXXX		

profit and loves account for the

particular	Re	particulars	RS
	xxx	To grow profit	XXX
70 calonies	xxx 1	By discount recevied	xxx
To rent (office)	hin Sid	143 3555 (3)	XXX
Insurance	XXX	By commission received	The same of the sa
To corriage outpaths	xxx	By profit on sales of tixed acres	XXX
		By net tou	XXX
o telephones oharges	ing now	7	ina
ocoit of samples	xxx //	of the second	
offdveristing expure	, xxx	la XXX	11 10 10 10 10 10 10 10 10 10 10 10 10 1
to heating & hight		CALL DELCORPORT CORROLL STATE AND A STATE OF THE ADDRESS OF THE STATE	panel 1
ing in		, , , , , , , , , , , , , , , , , , , ,	rurehier
To discount allowed		12	norw (
al de Die	1 xxx		on of
to depreciation		Mary de tarre	1XXXXX
	XXXX	Mark of the form	13560

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to pour of

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Balancing sheet aron-					
Ciabilia	Rs	Fored auck	E		
mailal (+) net	xxx	plantamelihi- nary			
biolic	wire!	depreciation	XXX		
(Bank over draft) & long term	xxx	land and building	XXX		
	1 11				
current trabilit	XXX	funiture current Assett / each in	XXX		
creditor	xxx	cach at Bount	XXX		
billi payartle	xxx	debtors	xxx'		
Bank over draft	xxx	check	xxx xxx		
a Handing	xxx	prepaid apone	nte xxx		
liabilified		markable seur	ary		
		The same			