Accounting & Finance

ano 1

i) G: What is simple intrest?

Simple Intrest:-

form of calculations of intrest pupable or recievable on the money advance in exchange for its use. Usage: It has very limited usage non a days. It may be used in auto-loan or personal loan,

Formulas

Simple intrest = Principle × rate × time

(i) Q: What is compound intrest? Why is it important?

Compound Intrest:-

Compound intrest is intrest calculated on the amount that includes the principle plus accumulated intrest of the previous period. Compound intrest = Pol(2+i)+-27

PE Principle i = intrest rate t = time period.

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(2)

Compound intrest has the most impact in long-term investing, since its effects increases as time goes on - It causes your wealth to grow paster. It makes a sum of money grow at a paster rade than simple intrest because you will earn returns on the money you invest, as well as on returns at the end of every compounding period-

111) Q: Define present value and puture value.

Present value:

payment or series of payment to be recived at a later date, given at a specified discount rate.

Formula:

 $PV = FV \times \frac{1}{(1+r)^n}$

PV= Present value

FV = Fature value

7 = Rate of intrest per annum

N = no- of years for which the amount have been invested.

Juture Value:

The vising value of today's sum at a specified rule of intres. Formula:

FV= PV(1+0)~

FV= future value

PV - Prent value

n = no. of years for which the amount has been invested,

iv) Q: What is annuity? Define its type.

Annuity:-

An annuity is a series of equal payments made at the end of equal intervals of regular time periods for a fined duration.

The time period could be weekly, monthly-quarterlyyear or at any other time intervals.

Defining 4 types of amuities:-

- 1) Ordinay annuities
- ·) Amnuities Due
- ·) Deferred annuities
- of A perpetuity.

The first payment is made at the end of the first period. Most home bons one structured this way.

) Annuities due:-

The piest payment is made at the beginning of the piest period. Most leases are this way.

) Deferred annuities:

The pist payment is deferred for a number of periods.

) A perpetuity:

An annuity in which payments continue indefinitely.



N: Q: What is capital budgeting? Explain different capital budgeting techniques,

Capital Budgeting:

Capital budgeting is the process

of evaluating and selecting long term investments

that are consistent with the goals of shareholders

(owners) wealth maximization.

The process that helps in planning the investment projects of an organization in long term run-

Jechniques:

.) Payback period: This method is used to know how much time it will take to recover the investment.

) Discount pay back period:

- Same as payback period method. Only difference is that it considers discounted cash blows.

) Net present value:

It is the sum of all judice discounted cash-flow less initial investment.

.) According Rate of Return (ARR):-

techinque to measure projet expected from an investment.

) Internal rate of Return (IRR):

the project & its pulme cash flow at par with the initial investments.

) Probitability Index:

you will earn per dollar.

·) Payback period

[PBP= a+ (b-c)/d]

Pay back period= initial cash investment
Annual cash blow

07

PBP = no. of years - cumulative cosh plou

.) Discount pay back period-

Discount Paytach = Years Until + Unsecovered amount
Break-Even

Cash Clor in recovery

.) Net present value (NPV):-

 $NPV = \left\{ \frac{A_1}{(1+h)}, + \frac{A_2}{(1+h)^2} + \frac{A_3}{(1+h)^3} + \dots + \frac{A_n}{(1+h)^n} \right\} - C$

where A, Az, Az - represents cash inflormed K is the firm's cost of capital.

Cis the cost of the investment proposal.

n is the expected life of the proposal.

o) Accounting rate of returning ARR(y) - Total nd protit/no. of years x100 ARR = Average net profit Average investment o) Internal rate of return:-IRR = LR + LNPV * (HR-LR)
(LNPV -HNPV) LR = lower discount rate. MR = Higher discount rate MNPV - Higher Net present value LNPV - low Net present value. .) Propitability index: PI = Present value of future cash flow initial investment

$$PV = C_{x} \left[1 - (1ii)^{-\eta} \right]$$

$$PV = \left(\times \left\{ \frac{1 - \left(1 + i \right)^{-n}}{i} \right\} \right)$$

$$PV = 7000 \left[\frac{1 - (1 + 87)^{-20}}{87} \right]$$



$$25,000 = C \left[\frac{(1+6.1.)^{-12}}{6-1.} \right]$$

$$C = \frac{25,000}{8.3858}$$

$$\cong$$

+

Formula:
$$FV = \left(\frac{1+8}{1+8} \right)^{n} = 2$$

$$50,000 = \left(\frac{1+8}{1+8} \right)^{10} = 1$$

(d)

IRR for each project A:

$$\frac{1000}{(1+n)^{2}} + \frac{1000}{(1+n)^{2}} + \frac{1000}{(1+n)^{3}} + \frac{1000}{(1+n)^{4}} - \frac{2000}{(1+n)^{4}} = 0$$

$$\pi = 34 - 90 \text{ percent}$$

$$\frac{0}{(1\pi x)^{2}} + \frac{0}{(1\pi x)^{2}} + \frac{0}{(1\pi x)^{3}} + \frac{6000}{(1\pi x)^{3}} + \frac{2000}{11} = 0$$

Net present value for Rach project at discound rate of
5 percent

bor project A

 $NPV = \left(\frac{1000}{(1+5/.)}, + \frac{1000}{(1+5/.)^2}, + \frac{1000}{(1+5/.)^3}, + \frac{1000}{(1+5/.$

NPV= 1545.95 d

gor Project B

 $NPV = \left(\frac{0}{(+5\%)}, + \frac{0}{(1+5\%)^2}, + \frac{0}{(1+5\%)^3}, + \frac{0}{(1+5\%)^6} \right) - 2000$

NPV = 2936.21 & (c)

Project A's IRR is greater than Project B.

Based on IRR, project A should be accepted.

If the discount rate is 5%, then project A should be accepted. The superior project will be the one having highest NPV at the required rule of reform. So greater NPV is of Project B.





Project A

Vate 12%

Project B

(a)

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VPV & pooject n:-
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$$NPV = \begin{cases} \frac{900}{(1+0.12)^2} + \frac{900}{(1+0.12)^3} +$$

$$\frac{A + 157}{(1+15)^2} \cdot PV = \left(\frac{1500}{(1+15)^2} + \frac{1500}{(1+15)^3} + \frac{1500}{(1+15)^3} + \frac{1500}{(1+15)^5} + \frac{1500}{(1+15)^5} + \frac{1500}{(1+15)^5} \right)$$

$$PV = 5676.72$$

$$\frac{9}{0.03} = \frac{676.72}{638.45483}$$

At 5 %
$$PV = 900 \left(\frac{1 - (\sqrt{105})^6}{0.05} \right)$$

$$\frac{x}{0.05} = \frac{568.12280}{648.78827} - x = 0.043810$$

As we find PBP of Project I is loss than project 2 so we will accept project I from part we find the NPV of Project I is greater than a and project y is less than a and negative, so we will roject project as I is from part a we find that the rate of return of project x is greater so we conclude from all parts that we give priority to project I on project 2.

