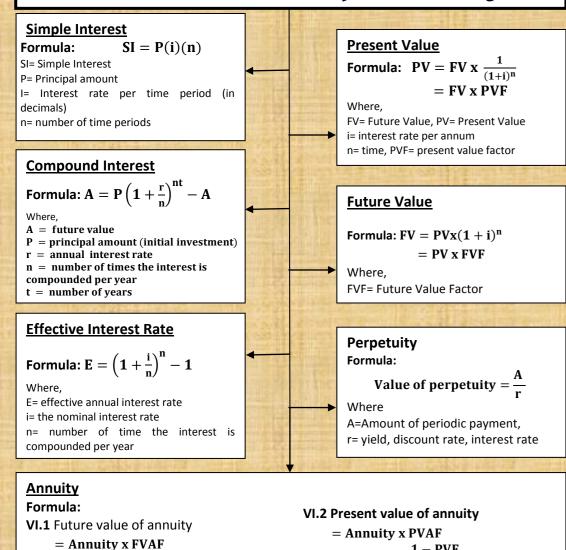
Time Value of Money

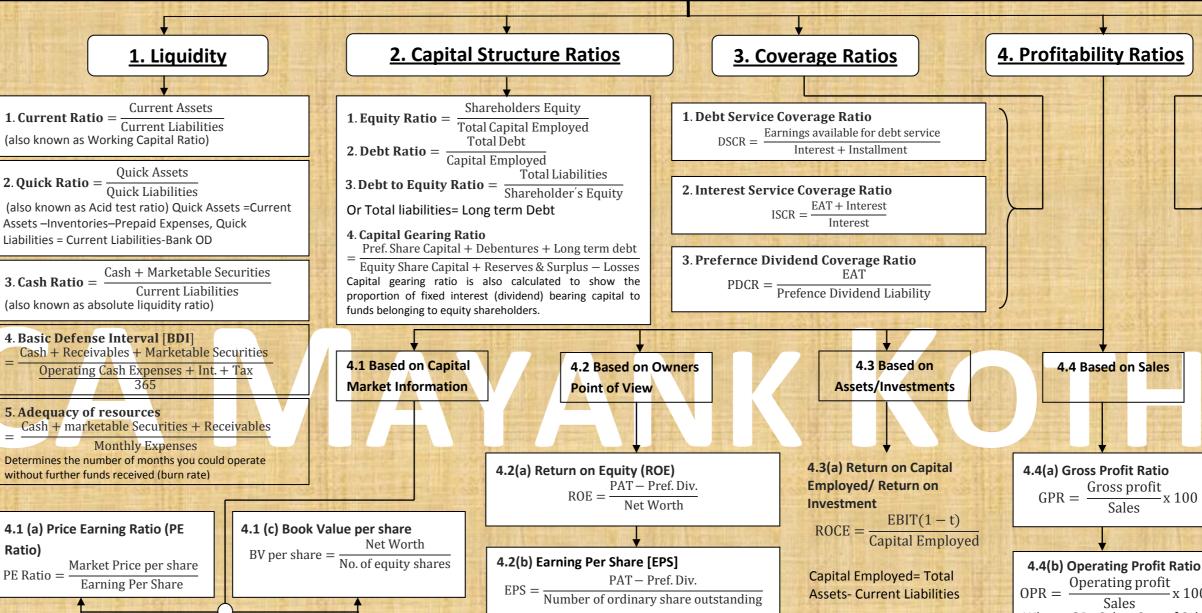


Where, FVAF = Future value annuity factor, PVAF= Present value annuity factor

= Annuity x $\frac{FVF - 1}{i}$ = Annuity x $\frac{(1+i)^n - 1}{i}$

Cash Flow from Operating Activities			₹
Net profit before tax and extraordinary items		XXX	
Adjustments for:			
- Depreciation		XXX	
- Foreign exchange		XXX	
- Investments		XXX	
- Gain or loss on sale of fixed assets		(XXX)	
- Interest/dividend		XXX	
Operating profit before working capital changes		XXX	
Adjustments for:			
- Trade and other receivables		XXX	
- Inventories		(XXX)	
- Trade Payables		XXX	
Cash Generation from operations		XXX	
- Interest paid		(XXX)	
- Direct Taxes		(XXX)	
Cash before extraordinary items		XXX	
Deferred revenue		XXX	
Net cash flow from operating activities	(a)		XXX
Cash Flow from Investing Activities	_		
Purchase of fixed assets		(XXX)	
Sale of fixed assets		XXX	
Purchase of Investments		XXX	
Interest received		(XXX)	
Dividend received		XXX	
Loans to subsidiaries		XXX	
Net cash flow from investing activities	(b)		XXX
Cash Flow from Financing Activities	-		
Proceeds from issue of share capital		XXX	
Proceeds from long term borrowings		XXX	
Repayment to finance/lease liabilities		(XXX)	
Dividend paid		(XXX)	
Net cash flow from financing activities	(c)		XXX
Net increase/(decrease) in Cash and Cash Equivalents	(a+b+c)		XXX
Cash and Cash Equivalents at the beginning of the year			XXX
Cash and Cash Equivalents at the end of the year			XXX

Ratio Analysis



Cash Flow Statement: Direct Method

4.1 (d) Market Price per share

MP per Share =

MP per share = PE Ratio x EPS

Op. Price + Cl. Price

Dividend Payment

Loan Repayment

Increase in Working Capital

4.1 (b) Yield

Dividend $Yield = \frac{Dividend}{Closing Share Price} \times 100$

Dividend

 $Yield = \frac{Dividend}{Average Share Price} \times 100$

Cash Flow Statement:	Direct	wet	noa
Cash Flow from Operating Activities			₹
Cash Receipts from the customers		XXX	
Cash paid to suppliers and employees		(XXX)	
Cash generated from operations		XXX	
Income tax paid		(XXX)	
Cash flow from extraordinary items		XXX	
Proceeds from earthquake disaster settlement etc.		XXX	
Net Cash flow from operating activities	(a)		XXX
Cash Flows from Investing Activities	(4)		7001
Purchase of fixed assets		(XXX)	
Proceeds from sale of equipment		XXX	
Interest received		XXX	
Dividend received		XXX	
Net cash flow from investing activities	(b)		XXX
Cash Flows from Financing Activities			
Proceeds from issuance of share capital		XXX	
Proceeds from long term borrowings		XXX	
Repayments of long term borrowings		(XXX)	
Interest Paid		(XXX)	
Dividend Paid		(XXX)	
Net cash from Financing Activities	(c)		XXX
Net increase (decrease) in Cash and	(a+b+c)		XXX
Cash Equivalents			
Cash and Cash Equivalents at the			XXX
beginning of the period			
Cash and Cash Equivalents at the end			XXX
of the period			

Particulars Working Amount Amount Note **Sources of Funds Funds from Operations** XXXXIssue of Equity shares XXIssue of Debentures XXLoan raised from bank Sale of Fixed Assets XXSale of Investments XXDecrease in Working Capital XXXXX **Application of Funds** Purchase of Plant and Machinery XXXXPurchase of Investments Payment or Redemption of Debentures XXXXTax Payment

4.2(c) Dividend Per Share [DPS]

Total Dividend

 $DPS = \frac{1}{Number of equity share}$

Particulars	31.03.2013	31.03.2014	Increase in WC	Decrease in WC
Current Assets				
Stock	XXX	XXX		
Debtors	XXX	XXX		
Inventory	XXX	XXX		
Cash and Bank	XXX	XXX		
Prepaid Expenses	XXX	XXX		
Current Liabilities				
Creditors	XXX	XXX		
Other Liabilities	XXX	XXX		
Net Working Capital				
Net Increase/Decrease in WC		XXX		

Working Note 1: Funds from Operations Fund Flow Statement

XX

XX

XXX

4.3(b) Return on Asset (ROA)

 $ROA = \frac{\text{Net Profit After Taxes}}{\text{Average Total Assets}}$

Net Income	XXX
Additions	
 Depreciation of fixed assets 	XX
 Amortization of intangible and deferred 	XX
charges (i.e. amortization of goodwill,	
trade marks, patent rights, copyright,	
discount on issue of shares and	
debentures, on redemption of	
preference shares and debentures,	
preliminary expenses, etc.)	
- Amortization of loss on sale of	XX
investments	
 Amortization of loss on sale of fixed 	XX
asset	
 Losses from other non-operating items 	XX
 Tax provision (created out of current 	XX
profit)	
 Proposed dividend 	XX
 Transfer to reserve 	XX
Deductions	
 Deferred credit (other than the portion 	(XX)
already charged to Profit and Loss A/c)	
 Profit on sale of investment 	(XX)
 Profit on sale of fixed assets 	(XX)
 Any subsidy credited to P & L A/c. 	(XX)
 Any written back reserve and provision. 	(XX)
Funds from Operations	XXX
Note: Here, Fund from Operations, is calculated after	adding

back tax provision and proposed dividend. Students should note that if provision for taxation and proposed dividend are excluded from current liabilities, then only these items are to be added back to find out the 'Fund from Operations'. By fund from operations if we want to mean gross fund generated before tax and dividend, then this concept is found useful. At the same time, fund from operations may also mean net fund generated after tax and dividend. For explaining the reasons for change in fund it would be better to follow the gross concept.

Fixed Assets

Fixed Asset turnover ratio

5. Activity Ratios

Capital turnover ratio

 $CTR = \frac{}{Capital Employed}$

Working capital turnover ratio

Working Capital

Inventory Turnover Ratio Cost of Goods Sold

Avg. Inventory

4.4(b) Operating Profit Ratio **Debtors Turnover Ratio** $OPR = \frac{Operating profit}{Sales} \times 100$

Where, OP= Sales-Cost of Sales

4.4(c) Net Profit Ratio

Credit Sales $DTR = \frac{1}{Avg. accounts receivable}$

Creditors Turnover Ratio

Credit Purchases Avg. accounts payables

Doctors Prescription © Time Value of Money and Ratio Analysis is all about formulas and basic concept. While studying these chapters don't just mug up the formulas, if you know the concept behind each it will be easy to remember all the formulas.

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It is advisable to read this chart thrice a Wednesday, Friday and Sunday will be a better choice.



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your place

Cost of Capital

Cost of Debt [K_d]

Cost of Irredeemable Debentures

$$K_{d} = \frac{I}{NP}(1-t)$$

Where,

 K_d = Cost of debt after tax I = Annual interest payment

NP = Net proceeds of debentures t =Tax rate

Cost of Redeemable

$$K_{d} = \frac{I(1-t) + \frac{(RV - NP)}{N}}{\frac{RV + NP}{2}}$$

Where, I = Annual interest payment, NP = Net proceeds of debentures, RV = Redemption value of debentures, t = Tax rate N = Life of debentures

Cost of Preference Shares [K_n]

Cost of Irredeemable Pref. Shares

Where K_n = Cost of preference shares PD = Amount of Preference Dividend, NP = Net proceeds of of the Preference Shares issue

Cost of Redeemable Pref. Shares

$$K_{d} = \frac{PD + \frac{(RV - NP)}{N}}{\frac{RV + NP}{2}}$$

Where, PD = Amount of Pref Dividend, NP =Net proceeds of preference issue, =Redemption value of preference shares, N = Life of the Preference shares.

1. Dividend Price Approach $K_e = \frac{D_1}{P_0} + G$

 $D_1 = [D_0(1+G)]$ i.e next expected dividend payment, G=Constant growth rate of dividend

If there is a floatation cost [F],
$$K_e = \frac{D_1}{P_0 - F} + G \label{eq:Ke}$$

3. Realized Yield Approach

$$Y_{t} = \frac{D_{1} + P_{t-1}}{P_{t-1}}$$

Where, Y_t=yield for the year t D_t =Dividend per share at the end of year t, P_t =price per share at the end of year t, P_{t-1} =price per share at the end of year t-1

2. Earning Price Approach

Where, E=Current earnings per share P= Market price per share If there is a growth G

$$K_e = \frac{E}{P} + G$$

4. Capital Asset Pricing Model

 $K_e = R_f + \beta (R_m - R_f)$

Capital Asset Pricing Model

 $D_1 = [D_0(1+G)]$ i.e

expected dividend payment,

G=Constant growth rate of

Cost of Retained Earnings

 $K_s = \frac{D_1}{P_0} + G$

Cash

Flow

 $K_S = R_f + \beta (R_m - R_f)$ Where,

dividend

Discounted

Method

 $K_e = Cost of equity$

 R_f = Risk free rate of return $R_m = Market return$

 β = beta of the security

Weighted Average Cost of Capital

Weighted average cost of capital (WACC) is the average after tax cost of all the sources. It is calculated by multiplying the cost of each source of finance by the relevant weight and summing the products up. Formula

$$WACC = K_e \frac{E}{E+D+P} + K_d (1-t) \frac{D}{E+D+P} + K_p \frac{P}{E+D+P}$$
 Where, $K_e = \text{Cost of equity}, K_d = \text{Cost of debt}, K_p = \text{Cost of preference shares}$

E= Value of equity in capital structure [Covers equity & retained earnings both], P= Value of preference shares in capital structure

D= Value of debt in capital structure

There is a choice between the book value weights and market value weights. While the book value weights may be operationally convenient, the market value basis is theoretically more consistent, sound and a better indicator of firm's capital structure.

The desirable practice is to employ market weights to compute the firm's cost of capital. This rationale rests on the fact that the cost of capital measures the cost of issuing securities - stocks as well as bonds - to finance projects, and that these securities are issued at market value, not at

Marginal Cost of Capital

The marginal cost of capital may be defined as the cost of raising an additional rupee of capital. Since the capital is raised in substantial amount in practice, marginal cost is referred to as the cost incurred in raising new funds. Marginal cost of capital is derived, when the average cost of capital is calculated using the marginal weights.

The marginal weights represent the proportion of funds the firm intends to employ. Thus, the problem of choosing between the book value weights and the market value weights does not arise in the case of marginal cost of capital computation.

To calculate the marginal cost of capital, the intended financing proportion should be applied as weights to marginal component costs. The marginal cost of capital should, therefore, be calculated in the composite sense. When a firm raises funds in proportional manner and the component's cost remains unchanged, there will be no difference between average cost of capital (of the total funds) and the marginal cost of capital. The component costs may remain constant upto certain level of funds raised and then start increasing with amount of funds raised.

Where,

 $K_e = Cost of equity$

 $R_m = Market return$

 β = beta of the security

 R_f = Risk free rate of return

Cost of Equity $[K_e]$

Capital Structure Decisions

Capital structure refers to the mix of a firm's capitalisation (i.e. mix of long term sources of funds such as debentures, preference share capital, equity share capital and retained earnings for meeting total capital

Financial Break-even and Indifference Analysis

Financial break-even point is the minimum level of EBIT needed to satisfy all the fixed financial charges i.e. interest and preference dividends. It denotes the level of EBIT for which the firm's EPS equals zero. The equivalency or indifference point can also be calculated algebraically in the following manner:

$$\frac{(EBIT - I_1)(1 - T) - PD}{F} = \frac{(EBIT - I_2)(1 - T) - PD}{F}$$

Where, EBIT= Indifference point, E_1 = Number of equity share in alternative 1, T= Tax rate,

 E_2 = Number of equity share in alternative 2, I_1 = Interest charges in alternative 1,

I₂ = Interest charges in alternative 2, Alternative 1= All Equity finance, Alternative 2= Debt-Equity finance

Capital Structure Theories

(a) Net income approach: The value of the firm on the basis of Net Income Approach can be ascertained as

V = S + D

Where, V = Value of the firm, S = Market value of equity, D = Market value of debt Earnings Available for Equity shareholders

Market Value of Equity =

Under, NI approach, the value of the firm will be maximum at a point where weighted average cost of capital is minimum. Thus, the theory suggests total or maximum possible debt financing for minimising the cost of capital. The overall cost of capital under this approach is:

Cost of Equity =
$$\frac{EBIT}{Value \text{ of the firm}}$$

- (b) Net operating income approach: NOI means earnings before interest and tax. According to this approach, capital structure decisions of the firm are irrelevant. Any change in the leverage will not lead to any change in the total value of the firm and the market price of shares, as the overall cost of capital is independent of the degree of leverage.
- (c) Modigliani-Miller approach: The above approach (NOI approach) is definitional or conceptual and lacks behavioural significance. It does not provide operational justification for irrelevance of capital

Based on the assumptions, Modigliani-Miller derived the following three propositions:

1. Total market value of a firm is equal to its expected net operating income dividend by the discount rate appropriate to its risk class decided by the market.

of Financing

into marketable ones.

which it desires to securitize.

2. Average cost of capital is not affected by financial decision.

What is Venture Capital Financing? [Topics from Types of Financing]

- ✓ The venture capital financing refers to financing of new high risky venture promoted by qualified entrepreneurs who lack experience and funds to give shape to their
- In broad sense, under venture capital financing venture capitalist make investment to purchase equity or debt securities from inexperienced entrepreneurs who undertake highly risky ventures with a potential of success.
- Some of the characteristics of Venture Capital Funding
 - (ii) It is basically a equity finance in new companies.
 - (iii) It can be viewed as a long term investment in growth-oriented small/medium firms.
 - (iv) Apart from providing funds, the investor also provides support in form of sales strategy, business networking and management expertise, enabling the growth of the entrepreneur.

<u>Doctors Prescription ©</u> Cost of Capital and Capital Structure are basically chapters where we learn to know how the funds are brought in the company and what are the risks (cost) associated with it.

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It is advisable to read this chart twice a week. Tuesday and Saturday will be a better choice.



normal course of business 2. Originator transfers the assets to a different

What is Debt Securitisation? [Topics from Types

Debt Securitisation is the process of conversion of

existing assets or future cash flows into marketable

securities. In other words, securitisation deals with

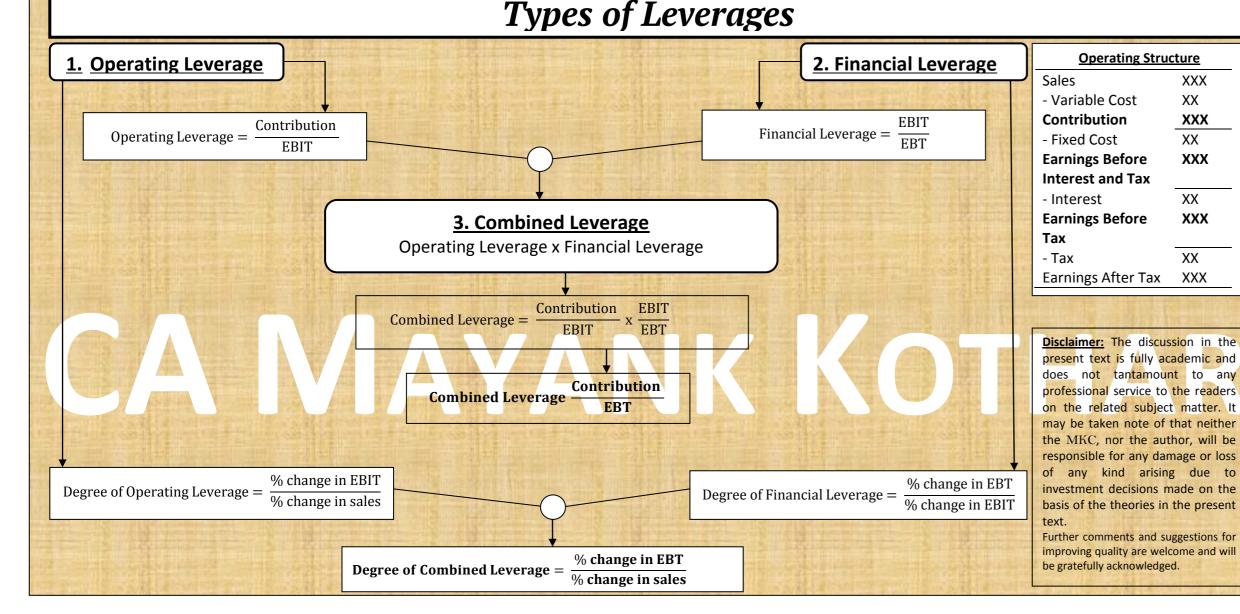
the conversion of assets which are not marketable

The originator, entity owning the assets out of an

agreement identifies a pool of homogeneous assets,

1. Originator makes sales to customers in the

- entity who has trust agreement with trustee, Guarentee agreement with guarentee and is top rated by rating agency, commonly known as special purpose vehicle (SPV) 3. SPV will convert such assets into certificates
- known as Pay through or Pass through certificates and sell those certificates to Public subscribes to such certificates and pay
- to the SPV. 5. SPV after deducting his charges transfers the
- proceeds to Originator. The debtors will due amount.
- 7. As and when SPV collects money from debtors, it will be immediately distributed to public (In case of pass through certificates) or will accumulate upto a point of time say a year and then distribute to public (In case of pay through certificates).



It's simple, "Work hard when it's time to work and drink hard when it's time to celebrate, don't put average efforts, this is what everybody is doing around you and you are doing no good. You can do much better than everyone else. Put that extra effort because this is what going to change your entire life. When you are going to travel on your dream path, it's not going to be easy but yes it's going to be worth it.

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Capital Budgeting Techniques

Discounted Techniques

1. Net Present Value

Here, Cash inflows and outflows are discounted to the present value and then compared with each other. The difference between these two is called as NPV.

NPV = Present value of Cash Inflow - Present Value of Cash Outflow

If the NPV is positive, that means we are earning more than the expected return on the project under consideration and hence the project should be accepted. If the NPV is negative, that means we are earning less than what is expected from the project under consideration and hence the project should not be accepted. **Draft Format**

Year (n)	Cash	Discount rate (r)	Present Value
	inflow/(outflow)		
0	-ve	1	XX
1	+ve	$1/(1+r)^1$	XX
2	+ve	$1/(1+r)^2$	XX
3	+ve	$1/(1+r)^3$	XX
RIESEY			47474747

3. Internal Rate of Return

INTERNAL RATE OF RETURN FOR AN INVESTMENT PROPOSAL IS THE DISCOUNT RATE THAT EQUATES THE PRESENT VALUE OF THE EXPECTED NET CASH FLOWS WITH THE INITIAL CASH **OUTFLOW.** IRR is the discount rate that sets **NPV to zero.**

Calculating IRR

SCENARIO 1: INVESTMENT WITH SAME CASH INFLOWS EACH YEAR

Step 1: Calculate present value annuity factor using following formula:

Annual cash inflow x PVAF = Present value of cash outflowSTEP 2: FIND OUT DISCOUNT RATE (IRR) FOR THE PRESENT VALUE ANNUITY FACTOR CALCULATED ABOVE IN THE ANNUITY TABLE. OR ELSE INTERPOLATION FORMULA CAN ALSO BE USED.

SCENARIO 2: INVESTMENT WITH DIFFERENT CASH INFLOWS OVER ITS LIFE,

WHEN THE CASH FLOWS ARE NOT UNIFORM OVER THE LIFE OF THE INVESTMENT, DETERMINATION OF THE DISCOUNT RATE INVOLVES USING TRIAL AND ERROR AND INTERPOLATION METHOD BETWEEN INTEREST RATES.

STEP 1: TRIAL AND ERROR METHOD: CONSIDER TWO DISCOUNT RATES:

A: ONE, AT WHICH THE NET PRESENT VALUE IS MORE THAN ZERO

B: OTHER, AT WHICH THE NET PRESENT VALUE IS LESS THAN INITIAL ZERO

STEP 2: INTERPOLATION FORMULA: CALCULATE IRR USING THE FOLLOWING FORMULA

$$IRR = A + \frac{NPV@A - O(Zero)}{NPV@A - NPV@B}x(B - A)$$

5. DISCOUNTED PAYBACK PERIOD

A DISCOUNTED PAYBACK PERIOD IS THE SAME AS THE PAYBACK PERIOD EXCEPT FOR THE FACT THAT IT TAKES INTO ACCOUNT THE TIME VALUE OF THE MONEY. DISCOUNTED PAYBACK PERIOD DISCOUNTS THE AMOUNT RECOVERED, RESULTING IN A LONGER PAYBACK PERIOD.

FORMULA:

Discounted Payback Period =
$$A + \frac{B}{C}$$

WHERE, A= LAST PERIOD WITH A NEGATIVE DISCOUNTED CUMULATIVE CASH FLOW; B= VALUE OF DISCOUNTED CUMULATIVE CASH FLOW AT THE END OF THE PERIOD A;

C= DISCOUNTED CASH FLOW DURING THE PERIOD JUST AFTER A.

Ex: An initial investment of ₹23,24,000 is expected to generate ₹600,000 per year for 6 years. Calculate the discounted payback period of the investment if the discount rate is 11%.

Step 1: Prepare a table to calculate discounted cash flow of each period by multiplying the actual cash flows by present value factor. Create a cumulative discounted cash flow column.

	Year	Cash Flow	Present Value	Discounted	Cumulative
			Factor	Cash Flow	Discounted
i	n	CF	PV₹1=1/(1+i) ⁿ	CF×PV₹1	Cash Flow
i	0	-23,24,000	1	-23,24,000	-23,24,000
	1	6,00,000	0.9009	5,40,541	- 17,83,459
	2	6,00,000	0.8116	4,86,973	- 12,96,486
	3	6,00,000	0.7312	4,38,715	- 8,57,771
	4	6,00,000	0.6587	3,95,239	- 4,62,533
	5	6,00,000	0.5935	3,56,071	- 1,06,462
	6	6,00,000	0.5346	3,20,785	2,14,323

Step 2: Discounted Payback Period = $5 + 1-106,4621/320,785 \approx 5.32 \text{ YEARS}$

2. Profitability Index

Profitability Index is defined as a tool for measuring profitability of a proposed project by comparing the cash inflows of the project with the investment required for the same project.

 $PI = \frac{Present value of cash inflows}{Present value of cash outfolws}$

Important notes:

- i. The profitability index is often used to rank the company's possible investment projects. Since companies have limited resources hence the top ranked PI projects are accepted and companies make investments in these projects in order to achieve maximum profit. Profitability index is also known as Profit Investment ratio or Value Investment ratio.
- Rules for selection or rejection of project
 - If PI > 1, then the project should be accepted
 - If PI < 1, then the project should be rejected
 - PI of 1 indicates the breakeven of the project.

Standard Deviation and Variance of Cash Flows

Standard Deviation (represented by the symbol sigma, o) shows how much variation or dispersion exists from the average (mean), or expected value.

$$\sigma = \sqrt{\frac{(R - \overline{R})^2}{N}}$$

a. When there is a probability

$$\sigma = \sqrt{\sum_{i=1}^n P_i (CF_i - EVCF)^2}$$

Where, P = Probabilities of occurence. CF = Cash Flows,EVCF = Expected value of Cash Flows

b. When there is no probability

$$\sigma = \sqrt{\frac{\sum_{i=1}^{n} (CF_i - EVCF)^2}{N}}$$

4. Modified Internal Rate of Return

concept of the conventional Internal Rate of Return. The MIRR addresses some of these deficiencies e.g, it eliminates multiple IRR rates; it addresses the reinvestment rate issue and produces results which are

Under this method, all cash flows, apart from the initial investment, are brought to the terminal value using an appropriate discount rate(usually the Cost of Capital). This results in a single stream of cash inflow in the terminal year. The MIRR is obtained by assuming a single outflow in the zeroth year and the terminal cash inflow as mentioned above. The discount rate which equates the present value of the terminal cash in flow to the zeroth year outflow is called the MIRR.

Non-Discounted Techniques

1. Payback Period

Payback period in capital budgeting refers to the period of time required for the return on an investment to "repay" the sum of the original investment. For example, a ₹1000 investment which returned ₹500 per year would have a two year payback period. Formula:

Total initial capital investment Payback Period = $\frac{1}{\text{Annual expected after tax net cash flow}}$

Payback Reciprocal

As the name indicates it is the reciprocal of payback period. The payback reciprocal can be calculated as follows:

Payback Reciprocal = $\frac{\text{Average Annual Cash Inflows}}{\text{Average Annual Cash Inflows}}$ Initial Investment

2. Accounting Rate of Return

The accounting rate of return of an investment measures the average annual net income of the project (incremental income) as a percentage of the investment.

Accouting rate of return =

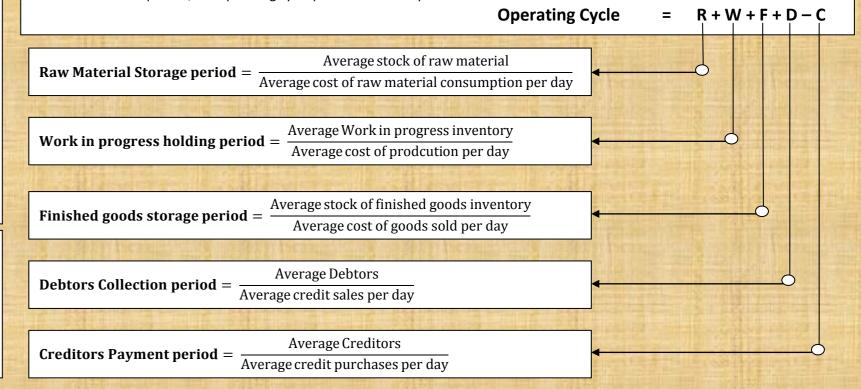
Average Annual Net Income Average Investment

The denominator can be either the initial investment or the average investment over the useful life of the project.

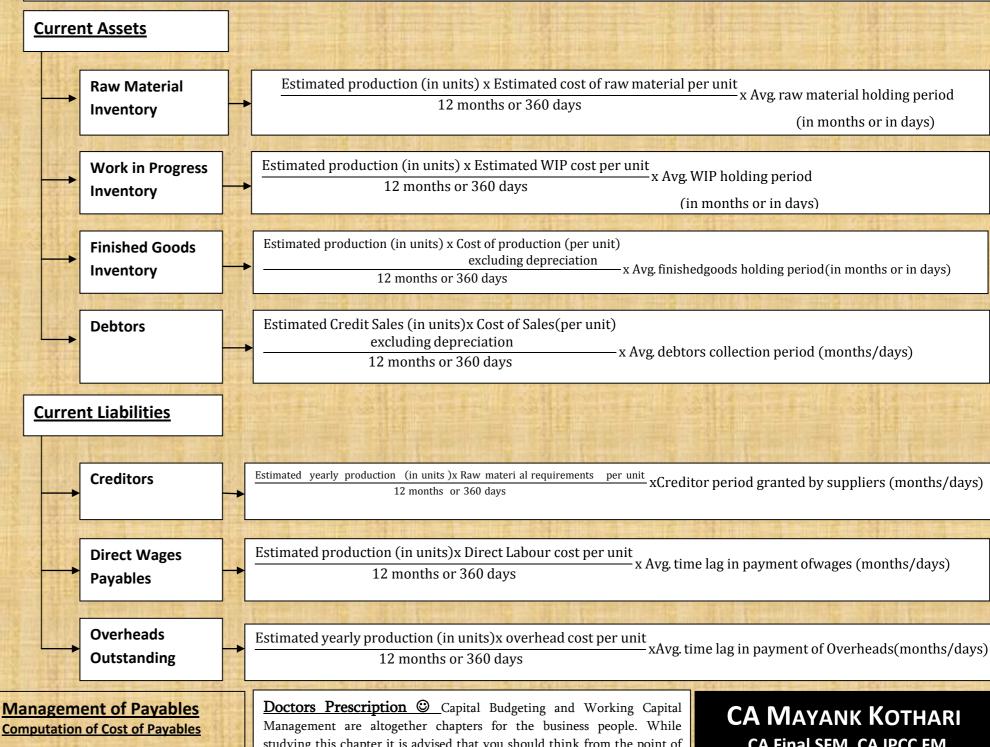
Working Capital Management

Operating or Working Capital Cycle

Working Capital cycle indicates the length of time between a company's paying for materials, entering into stock and receiving the cash from sales of finished goods. For example, a company holds raw materials on an average for 60 days, it gets credit from the supplier for 15 days, production process needs 15 days, finished goods are held for 30 days and 30 days credit is extended to debtors. The total of all these, 120 days, i.e., 60 - 15 + 15 + 30 + 30 days is the total working capital cycle. In the form of an equation, the operating cycle process can be expressed as follows:



Estimate of Amount of different components of Current Assets and Current Liabilities



studying this chapter it is advised that you should think from the point of view of a businessman with long term goals and objectives.

 $\sqrt{100-d}$

Where, d = size of discount, i.e. for 6%

discount. d=6, t=The reduction in the

payment period in days, necessary to

obtain the early discount or Days

Credit Outstanding - Discount Period.

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Types of Financing

External Commercial Borrowing

- ECBs refer to commercial loans (in the form of bank loans, buyer's credit, suppliers credit, securitised instruments (e.g. floating rate notes and fixed rate bonds) availed from non-resident lenders with minimum average maturity of 3 years.
- Borrowers can raise ECBs through internationally recognised sources like (i) international banks, (ii) international capital markets, (iii) multilateral financial institutions (iv) export credit agencies, (v) suppliers of equipment, (vi) foreign collaborators and (vii) foreign
- External Commercial Borrowings can be accessed under two routes viz (i) Automatic route and (ii) Approval route.
- Under the Automatic route there is no need to take the RBI/Government approval whereas such approval is necessary under
- v. Company's registered under the Companies Act and NGOs engaged in micro finance activities are eligible for the Automatic Route where as Financial Institutions and Banks dealing exclusively in infrastructure or export finance and the ones which had participated in the textile and steel sector restructuring packages as approved by the government are required to take the Approval Route.

Euro Bonds

- The name Eurobonds can be misleading because from the word, you'd think either Eurobonds were about the European bond markets, or about the European currency, Euros.
- Eurobonds are actually bonds that are denominated in a currency other than that of the country in which they are issued. They are usually issued in more than one country of issue and traded across international financial centres
- Corporations, including banks and multinational entities issue Eurobonds for many purposes including financing for capital and other
- Eurobonds are not regulated by the country of the currency in which they are denominated. Eurobonds are so-called "bearer bonds", they are not registered
 - anywhere centrally, so whomever holds or bears the bond is considered the owner. Their "bearer" status also enables Eurobonds to be held anonymously.

Foreign Bonds

- These are debt instruments issued by foreign corporations or foreign
- Such bonds are exposed to default risk, especially the corporate bonds.
- These bonds are denominated in the currency of the country where they are issued, however, in case these bonds are issued in a currency other than the investors home currency, they are exposed to exchange rate risks. An example of a foreign bond 'A British firm placing Dollar denominated bonds in USA'

Medium Term Notes

- Certain issuers need frequent financing through the Bond route including that of the Euro bond.
- However it may be costly and ineffective to go in for frequent issues. Instead, investors can follow the MTN programme.
- Medium-term note ("MTN") programs enable companies to offer debt securities on a regular and/or continuous basis.
- Notes range in maturity from one to 10 years. By knowing that a note is medium term, investors have an idea of what its maturity will be when they compare its price to that of other fixed-income securities.
- All else being equal, the coupon rate on medium-term notes will be higher than those achieved on short-term notes.

Deposit (CD)

- Certificate of deposit is a promissory note issued by a bank. It is a time deposit that restricts holders from withdrawing funds on demand. Although it is still possible to withdraw the money, this action will often
 - ✓ CDs can be issued by (i) scheduled commercial banks {excluding Regional Rural Banks and Local Area Banks}; and (ii) select All-India Financial Institutions (FIs) that have been permitted by RBI to raise short-term resources within the umbrella limit (prescribed in paragraph 3.2 below) fixed by RBI.
 - ✓ Minimum amount of a CD should be Rs.1 lakh, i.e., the minimum deposit that could be accepted from a single subscriber should not be less than Rs.1 lakh, and in multiples of Rs. 1 lakh thereafter.
 - ✓ The maturity period of CDs issued by banks should not be less than 7 days and not more than one year, from the date of issue.
 - ✓ CDs in physical form are freely transferable by endorsement and delivery.

Floating Rate

Notes

- A debt instrument with a variable interest rate. Also known as a "floater
- Floaters are mainly issued by financial institutions and governments, and they typically have a two- to five-year term to maturity.
- Interest rates are adjusted to reflect the prevailing exchange rates.
- They provide cheaper money than foreign loans.
- An FRN's interest rate can change as often or as frequently as the issuer chooses, from once a day to once a year. The "reset period" tells the investor how often the rate adjusts. The issuer may pay interest monthly, quarterly, semi-annually or annually. FRNs may be issued with or without a call option.

Deep Discount **Bonds**

- 1. Deep Discount Bonds is a form of zero-interest bonds.
- 2. These bonds are sold at a discounted value and on maturity face value is paid to the investors.
- 3. In such bonds, there is no interest payout during lock in period.
- 4. IDBI was the first to issue a deep discount bond in India in January, 1992. The bond of a face value of ₹1 lakh was sold for ₹2,700 with a maturity period of 25 years. The investor could hold the bond for 25 years or seek redemption at the end of every five years with a specified maturity value as

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Holding Period (years)	5	10	15	20	25
Maturity Value	5,700	12,000	25,000	50,000	1,00,000
Annual rate of interest	16.12	16.09	15.99	15.71	15.54

The investor can sell the bonds in stock market and realise the difference between face value (₹2,700) and market price as capital gain.

Note that Deep Discount Bond may have interest rates which can be lower than

Zero Coupon Bonds

- ✓ A zero-coupon bond (also discount bond or deep discount bond) is a bond bought at a price lower than its face value, with the face value repaid at the time of
- It does not make periodic interest payments, or have so-called "coupons", hence the term zero-coupon bond. When the bond reaches maturity, its investor receives its par (or face) value.
- Some zero coupon bonds are inflation indexed, so the amount of money that will be paid to the bond holder is calculated to have a set amount of purchasing power rather than a set amount of money, but the majority of zero coupon bonds pay a set amount of money known as the face value of the bond.
- Zero coupon bonds may be long or short term investments. Long-term zero coupon maturity dates typically start at ten to fifteen years. The bonds can be held until maturity or sold on secondary bond markets. Short-term zero coupon bonds generally have maturities of less than one year and are called bills. The U.S. Treasury bill market is the most active and liquid debt market in the world.

Double **Option Bonds**

- ✓ These have also been recently issued by the IDBI. The face value of each bond is ₹5,000.
- The bond carries interest at 15% per annum compounded half yearly from the date of allotment. The bond has maturity period of 10 years.
- ✓ Each bond has two parts in the form of two separate certificates, one for principal of ₹5,000 and other for interest (including redemption premium) of ₹16,500.
- ✓ Both these certificates are listed on all major stock exchanges.
- ✓ The investor has the facility of selling either one or both parts anytime he

Commercial **Paper**

1. What is Commercial Paper (CP)?

Commercial Paper (CP) is an unsecured money market instrument issued in the form of a promissory note.

2. Who can issue CP: Corporate, primary dealers (PDs) and the All-India Financial Institutions (FIs) are eligible to issue CP.

3. What is the minimum and maximum period of maturity prescribed for CP?

CP can be issued for maturities between a minimum of 7 days and a maximum of up to one year from the date of issue. However, the maturity date of the CP should not go beyond the date up to which the credit rating of the issuer is valid.

4. In what denominations a CP that can be issued?

CP can be issued in denominations of Rs.5 lakh or multiples thereof.

5. Who can invest in CP?

Individuals, banking companies, other corporate bodies (registered or incorporated in India) and unincorporated bodies, Non-Resident Indians (NRIs) and Foreign Institutional Investors (FIIs) etc. can invest in CPs.

6. Whether CP can be held in dematerialised form? Yes.

7. Whether CPs are traded in the secondary market?

Yes. CPs are actively traded in the OTC [over the counter] market. Such transactions, however, are to be reported on the reporting platform within 15 minutes of the trade for dissemination of trade information to market participation thereby ensuring market

Floating Rate Bonds

- ✓ This as the name suggests is bond where the interest rate is not fixed and is allowed to float depending upon the market conditions.
- ✓ This is an ideal instrument which can be resorted to by the issuer to hedge themselves against the volatility in the interest rates.
- ✓ This has become more popular as a money market instrument and has been successfully issued by financial institutions like IDBI, ICICI etc.

Lease Financing

Types of lease contract

- Operating Lease
- 2. Finance Lease

Distinguish between Financial and Operating lease

Basis	Financial Lease	Operating Lease
Lease term	Covers the economic life of the	Covers significantly less than the
	equipment	economic life of the equipment
Cancellation	Financial lease cannot be cancelled	Operating lease can be cancelled by
	during the primary lease period.	the lessee prior to its expiration.
Amortization	The lease rentals are more or less	The lease rentals are not sufficient
	fully amortized during the primary	enough to amortize the cost of the
	lease period.	asset.
Risk of obsolescence	The lessee is required to take the risk	The lessee is protected against the
	of obsolescence.	risk of obsolescence.
Costs of maintenance,	Incurred by the lessee unless the	Incurred by the lessor.
taxes, insurance etc.	contract provides otherwise.	

American Depositary Receipts

- ✓ Shares of many non-US companies trade on US stock exchanges through ADRs. ✓ ADRs are denominated and pay dividends in US dollars and may be traded like regular shares of stock.
- √ This is an excellent way for the public in US to buy shares in a non US company
- while realizing any dividends and capital gains in U.S. dollars. ✓ One ADR may represent a portion of a foreign share, one share or a bundle of
- shares of a foreign corporation. ✓ If the ADR's are "sponsored," the corporation provides financial information and other assistance to the bank and may subsidize the administration of the ADR.
- ✓ "Unsponsored" ADRs do not receive such assistance.
- ✓ Fees associated with the creating or releasing of ADRs from ordinary shares, charged by the commercial banks with correspondent banks in the international sites.

✓ A bank certificate issued in more than one country for shares in a foreign

Global **Depositary** Receipts

- ✓ The shares are held by a foreign branch of an international bank. ✓ The shares trade as domestic shares, but are offered for sale globally through

International Order Book (IOB).

- the various bank branches. ✓ Several international banks issue GDRs, such as JPMorgan Chase, Citigroup,
- Deutsche Bank, The Bank of New York Mellon. ✓ GDRs are often listed in the Frankfurt Stock Exchange, Luxembourg Stock Exchange and in the London Stock Exchange, where they are traded on the

Indian Depositary

- ✓ An Indian Depository Receipt (IDR) is a financial instrument denominated in Indian Rupees in the form of a depository receipt created by a Domestic Depository against the underlying equity of issuing company to enable foreign companies to raise funds from the Indian securities Markets.
- ✓ The foreign company IDRs will deposit shares to an Indian depository.
- ✓ The depository would issue receipts to investors in India against these shares.
- ✓ The benefit of the underlying shares (like bonus, dividends etc.) would accrue to the depository receipt holders in India.

Seed Capital Assistance

Receipts

- ✓ The Seed capital assistance scheme is designed by IDBI for professionally or technically qualified entrepreneurs and/or persons possessing relevant experience, skills and entrepreneurial traits.
- ✓ All the projects eligible for financial assistance from IDBI, directly or indirectly through refinance are eligible under the scheme.
- √ The Seed Capital Assistance is interest free but carries a service charge of one per cent per annum for the first five years and at increasing rate thereafter.
- ✓ However, IDBI will have the option to charge interest at such rate as may be determined by IDBI on the loan if the financial position and profitability of the company so permits during the currency of the loan.
- ✓ The repayment schedule is fixed depending upon the repaying capacity of the unit with an initial moratorium upto five years.
- ✓ The project cost should not exceed ₹2 crores and the maximum assistance under the project will be restricted to 50 percent of the required promoter's contribution or ₹15 lacs, whichever is lower.

What is Bridge Financing

- ✓ Bridge finance refers to loans taken by a company normally from commercial banks for a short period because of pending disbursement of loans sanctioned by financial institutions
- The bridge loans are repaid/ adjusted out of the term loans as and when disbursed by the concerned
- Bridge loans are normally secured by hypothecating movable assets, personal guarantees and demand promissory notes. Generally, the rate of interest on bridge finance is higher as compared with that on

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