# Chapter 1 Scope and Objective of Financial Management Page No.1.1

Exam	M12	N12	M14	M15	N16	M17	N17	M18	M19	N19
Marks	4	4	4	4	4	4	4	4	2	3

Q1.Explain two Basic aspects/ functions of Financial Management.	Q3. What is the interrelation between Financing, Investment and	<ol> <li>Ignores time pattern of return</li> <li>Too narrow</li> </ol>
[Nov 09,19]	Dividend decision? [Nov 2017]	
1. Procurement of fund	<ol> <li>Financing decision</li> <li>Investment decision</li> </ol>	Q7. What is Wealth Maximization?
2 Effective utilisation of fund	3. Dividend decision	The value/wealth of a firm is defined
(invest properly and profitably, no	04. The two chiestimes of Financial	as the <u>market price of the firms</u> stock
fund to be kept idle, return must be	Q4. The two objectives of Financial Management	<u>Stoch</u> .
greater than cost)	a) Profit Maximisation ( Short term)	OB Wealth Maximization
cma tec	b) Wealth maximisation (Long term)	Advantages
Q2. What are the three Phases of Evolution of Financial Management? [Nov 02, 09]	Q5. Profit Maximisation - Advantages 1. Primary objective	<ol> <li>Considers all future cash flows, dividends, earning per share, risk of a decision etc.</li> <li>Pay regular dividends</li> </ol>
<ol> <li>Traditional Phase</li> <li>Merger, acquisition, takeovers,</li> <li>liquidations</li> <li>Transitional Phase</li> </ol>	<ol> <li>Implied objective</li> <li>Growth and development</li> <li>Impact on society</li> <li>Only profit making firms</li> </ol>	<ol> <li>Considers risk and recognizes the importance of distribution of returns.</li> </ol>
day-to-day problems 3. Modern Phase	5. Only profit making firms	Q9. Wealth Maximization
efficient market, capital budgeting,	Q6. Profit Maximisation -	Disadvantages
option pricing, valuation models	Dis-advantages	1. No clear relationship
	1. Not an operationally feasible	2. anxiety and frustration
	2. Term profit is 'Vague'	
	3. Ignores the risk factor.	

# Chapter 1 Scope and Objective of Financial Management Page No.1.2

Q10 Distinguish management and f [Nov 09]	between Financial inancial accounting	Q12. Explain the role of Finance Manager in the changing scenario of financial management in India	<ul> <li>→provision for refund when money is</li> <li>not required in the business</li> <li>→deciding most profitable investment</li> </ul>
FM Cash flow Future oriented a. Procurement of fund b. Effective	FA Accrual system Past oriented a. Measurement, b. Recognition c. Disclosure	<ul> <li>Occupies key position,</li> <li>responsible for shaping fortune of an organisation,</li> <li>earlier role and new roles,</li> <li>New era brings new challenges,</li> <li>role is bigger due to liberalization, deregulation and globalization</li> </ul>	in the business→managing the fund raised→paying the returns to the provider of the fund Q15. Financial distress 1. There are various factors like - a. price of the product/service, demand price
utilisation Q11. Functions of or CFO [ May 10, Nov 11 [Hint- our index of 1. Estimating requ fund 2. Financial negoti 3. Performance ev	Finance Manager Cma.tec FM syllabus] hirement of the ation aluation	Q13. Emerging issues affecting the role of CFO [May 2014, Nov 2016] MT-RTRTRTGSS Ch V:Regulationxyz (Online S 2. Technology 3. Risk- 4. Transformation 5. Reporting- 6. Talent and capabilities- 7. Globalisation-	<ul> <li>b. Proportion of debt</li> <li>c. short term and long term creditors</li> <li>12. If all the above factors are not managed by the firm, it can create situation like distress,</li> <li>3. Financial distress is a position where the cash inflows of a firm are inadequate to meet all its current obligations.</li> </ul>
<ol> <li>Capital Structur</li> <li>Investment dec</li> <li>Risk managemer</li> <li>Dividend decision</li> <li>Cash Managemer</li> </ol>	ision it on ent	<ol> <li>Stakeholder management-</li> <li>Strategy-</li> <li>Q14. What do you understand by</li> </ol>	<ul> <li>Q16. Insolvency-</li> <li>1. Now if the distress continues for the long time,</li> <li>2. Revenue is inadequate to revive</li> </ul>
9. Market impact o	analysis	Finance Function raising of fund→deciding the cheapest source of finance →utilisation of fund	the situation firm 3. Inability of a firm to repay various debts

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### Chapter 1 Scope and Objective of Financial Management Page No.1.3

Self-Notes :-

Q17.	Agency	prob	lem
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#### 1. Separation between owner/shareholders and managers

 Managers may try to maximise their individual goals like salary, perks etc.

#### Q18. Agency cost

- Agency cost is the addition cost borne by the shareholders to monitor the <u>manager and control</u> <u>their</u> behaviour
  - a. Monitoring

### cma.techyribu.xyz (Online Study)

- b. Bonding
- c. Opportunity
- d. Structuring

#### Q19. Solution to agency problem

- 1. Compensation is linked to profit
- 2. Aligning with objective of shareholders

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### Q1.Features of equity shares

- 1. Permanent capital
- 2. No liability for cash outflows
- 3. Right to elect board of directors
- 4. Redeemed only in case of liquidation
- 5. **Provides a security** to other suppliers
- 6. Costliest but least risky
- 7. Not obliged legally to pay dividends
- 8. Cost of ordinary shares is higher
- 9. Increases company's financial base

# Q2. Features of preferenceshare eco

- 1. Hybrid security because it has features of both ordinary share capital and bonds.
- 2. No dilution in EPS
- 3. There is leveraging advantage
- 4. The preference dividends are fixed and pre-decided
- 5. There are no voting rights

Q3. Retained earnings/ explain the term 'Ploughing back of Profits'. What do you understand by internal cash accruals

- Long-term funds may also be provided by accumulating the profits
- 2. Increase the net worth
- 3. Increases the debt borrowing capacity
- 4. This is a form of *internal cash* accrual.
- 5. A public limited company must plough back a reasonable keeping in view the legal requirements

### Q4. Salient features of term loan

- 1. Issued for Long term Yribu xyz (Online 2. Low cost
- 3. Tax deductible
- 4. Low admin cost
- 5. Interest depend on credit rating
- 6. Can put nominee director

Q5. What are the features of Debentures? Or, Financing a business through borrowing is cheaper than using equity 1. Low cost

- 2. Tax deductible
- 3. No control dilution
- 4. Finance leverage

5. Low admin cost

Q6. What do you understand by Bonds? What are the different types of Bond

Bond is fixed income security created to raise fund.

Types of Bond-

- Callable bonds: A callable bond has a call option which gives the issuer the right to redeem the bond before maturity at a predetermined price known as the call price
- Sture Puttable bonds: Puttable bonds give the investor a put option (i.e. the right to sell the bond) back to the company before maturity

### Q7. Masala Bond

- It is an Indian name used for Rupee denominated bond that *Indian corporate borrowers* can sell to investors in overseas markets
- 2. Issued outside India but denominated in Indian Rupees
- 3. First issued by NTPC for 2000 crore.

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### Q8. Municipal Bonds

used to <u>finance urban infrastructure</u> are increasingly evident in India

### Q9.Government bond or treasury bond

These bonds issued by Government of India, Reserve Bank of India, any state potential of success Government or any other Government department

### Q10. Explain Bridge Finance

- 1. Short term financing, because of pending disbursement,
- 2. Hypotication against movable assets ch
- 3. High interest cost
- 4. Repaid out once proceed is received

Q11. What do you understand by Venture capital financing? What are the methods of venture capital financing? [Nov 2002, 08, May 2005,13]

- 1. The venture capital financing refers to financing of new high risky venture promoted by qualified entrepreneurs who lack experience and Fund.
- 2. VC make investment to purchase

Equity or Debt securities of highly risky ventures with a potential of success.

- Q12. Method of venture capital financing
- Equity Financing (does not exceed 49%)
- 2. Conditional loan (No interest, only 2 and 15 per cent Royalty)
- 3. Income note: (features of both conventional loan and conditional loan.)
- 4. Participating debenture
- yr. in the startzup phage no interests is charged
  - b. Next stage a low rate of interest
  - c. After that, a <u>high rate</u> of interest

Q13. Discuss the factors that a venture capitalist should consider before financing any risky project.

- 1. Quality of the management team
- 2. Technical ability of the team
- 3. Technical feasibility of the new product.
- 4. Risk involved
- 5. Market for the new product.
- 6. Capacity to bear risk or loss

7. Exist routes

8. place on the Board of Director

Q14. What is debt securitization? Explain the basics of debt securitisation process ?

- Debt securitization is a process of transformation of illiquid assets into security, which may be traded later in open market
- 2. It is a method of recycling of funds
- 3. Assets generating steady cash flows are packaged together and against this asset pool, market securities
- ud gan be issued, e.g. housing finance, auto loans, and credit card receivables. e.g. housing finance, auto loans, and credit card receivables

### Q15. Process of securitization

- The origination function A borrower seeks a loan from a finance company
- The pooling function Similar loans on receivables are clubbed together to create an underlying pool of assets
- 3. The securitization function SPV will structure and issue securities on the basis of asset pool

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#### Q16. Advantages of Debt **Securitization**

- 1. Method of recycling of funds
- 2. The asset is shifted off the Balance Sheet
- 3. Converts illiquid assets to liquid portfolio
- 4. Better balance sheet management
- 5. Credit rating enhances

### Short term sources of finance

Q17. Name few instruments of Short term finance cma.tech 1. Trade Credit 2. Advances from Customers 3. Bank Advances:

4. Accrued Expenses and Deferred Income

### Q18. What is Commercial Paper? What are its features? Explain the eligibility criteria for issue of commercial paper

- 1. It is an Unsecured money market instrument
- 2. Vaghul working group 1990 made recommendation for criteria of issue

- 3. Maturity may range from 7 days-1 year.
- 4. Issued in multiple of 5 lakh
- 5. Only high rated corporate borrowers can issue Commercial paper

### Q19. Conditions are eligible to issue commercial paper.

- 1. tangible net worth of the company is Rs. 5 crores or more
- 2. Working capital limit is not less than Rs. 5 crores
- 3. Necessary credit rating
- 4. Minimum current ratio of 1.33:1
- 5. Listed on one or more stock ne exchanges
- 6. All issue *expenses* shall be borne by the company

### **Finance related to Export-Pre-Shipment Finance**

### Q20. What do you understand by packing credits

- 1. Advance for buying goods and capital equipment to the exporter
- 2. Advance given against Export order

#### or Irrevocable Letter of Credit

3. liquidated within 180 days from the date of its commencement by negotiation of export bills or receipt of export

#### Q21. What are the different types of packing credits

- a. Clean packing credit -advance made available to firm export order or a letter of credit without exercising any charge
- b. Packing credit against hypothecation of goods
  - pledgeable interest and the goods
- Study are hypothecated to the bank as security
  - c. Packing credit against pledge of goods
  - d. E.C.G.C. guarantee
  - e. Forward exchange contract -
  - f. exporter should enter into a forward exchange contact with the bank,

Q22. Post shipment packing credits Banks provide finance to exporters by purchasing export bills drawn payable at sight or by discounting usance export bill covering <u>confirmed sales</u> and backed by documents including

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d <u>ocuments of title of goods</u> such as	Q26. Secured Premium Notes	Q29. International Financing
<u>bill of lading</u> , <u>post parcel receipt,</u> or	1. Secured Premium Notes is issued	1. External commercial Borrowings
<u>air consignment notes</u> .	along with a detachable warrant	(ECB)
<ul> <li>Q23. Certificate of Deposit (CD)</li> <li>1. Document of title similar to a time deposit receipt</li> <li>2. No prescribed interest rate on such funds</li> <li>3. Banker is not required to encash the deposit before maturity</li> <li>4. He can sell the CD in secondary</li> </ul>	<ol> <li>Redeemable after a notified period of say <u>4 to 7 years.</u></li> <li>Tradable instrument whereby investor gets <u>right to apply for</u> <u>equity share</u></li> <li>Q27. Deep discount bonds (DDB)</li> <li>It is issued by IDBI</li> <li>Deephy discounted</li> </ol>	<ol> <li>Euro Bonds:</li> <li>Foreign Bonds:</li> <li>Medium Term Notes</li> <li>Euro Convertible bond</li> <li>Fully Hedged Bonds</li> <li>Euro Commercial paper</li> <li>Foreign currency Options:</li> <li>Foreign Currency Futures</li> </ol>
market.	<ol> <li>Deeply discounted</li> <li>No interest is paid during lock-in</li> </ol>	10. Floating Rate Notes (FRN):
<ul> <li>Q24. Public Deposits</li> <li>1. Deposit from public Cma.tec</li> <li>2. Max 35% of paid up share capital &amp; reserves</li> <li>3. Accepter for 6M to 3 Years</li> <li>4. Raised mainly for working capital</li> </ul>	4. IDBI was first to issue DDB in Y January 1992 with maturity period S of 25 years. The bond was issued for 2,700 with face value of 1,00,000.	<ul> <li>(ADR)</li> <li>1. These are securities offered by <u>non-US companies</u> who want to <u>list</u> <u>on any of the US exchange</u></li> <li>2. ADR represents a certain number of a non US company's regular shares</li> </ul>
<ul> <li>Q25. Seed capital assistance'</li> <li>1. Scheme of IDBI</li> <li>2. Professionally qualified entrepreneurs</li> <li>3. Max 2cr project cost</li> <li>4. Max loan is 50% of owner's contribution or 15 Lakh which is low</li> <li>5. Initially no interest but service charge of 1%, moratorium period 5 Years.</li> </ul>	<ol> <li>Q28. Zero Coupon Bonds</li> <li>No interest is paid till maturity.</li> <li>It is deeply discounted</li> <li>Difference between issue price and redemption value represents interest</li> <li>Indexation and concessional tax rate</li> <li>Lesser lock-in compared to DDB</li> </ol>	<ol> <li>ADRs are issued by an approved New York bank or trust company</li> <li>ADRs goes through US brokers, Helsinki Exchanges and DTC as well as Deutsche Bank</li> <li>The most onerous aspect of a US listing for the companies is to provide full, half yearly &amp; quarterly accounts to <u>Security Exchange</u> <u>Commission USA.</u></li> </ol>

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### Q31. Global Depository Receipts (GDR)

- 1. Represents the share of Non- US based company
- GRDs are created when local currency share of Indian company are delivered to the depository's local custodian bank, against which depository receipts are created in US\$.
- 3. GDRs may be freely traded like any other dollar denominated security
- 4. Advantage over debt as there is no repayment of principal
- 5. Indian companies have preferred ech the GDRs to ADRs

### Q32. Indian Depository Receipts (IDR)

- The concept of the depository receipt mechanism which is used to raise funds in foreign currency has been applied in the Indian Capital Market through the issue of Indian Depository Receipts (IDRs).
- 2. IDRs are similar to ADRs/GDRs
- The IDRs are listed and traded in India in the same way as other Indian securities are traded.

Q33. What is factoring

Factoring involves provision of <u>specialized services</u> relating to <u>credit</u> <u>investigation</u>, <u>sales ledger management</u> <u>purchase and collection of debts</u>, <u>credit protection</u> as well as provision of finance against receivables and risk bearing.

# Q34. Advantages and Limitations of factoring

#### Advantages:

- 1. Firm can convert accounts receivables into cash
- 2. Steady pattern of cash inflows.
- 3.2 Virtually eliminated then red for the tudy) credit department
- 4. Relieving the borrowing firm of substantially credit and collection costs.

Limitations: Cost of factoring is generally higher

### Q35. What are the types of Factoring

- 1. With recourse- Bad debt borne by the client
- 2. Non-recourse/ full factoring- Bad debt borne by Factor
- 3. Maturity factoring- factor pays to the client on guaranteed date
- 4. Advance factoring- 80% per-

#### payment

- 5. Notified factoring- Debtor is informed about arrangement
- 6. Non-Notified factoring- Debtor is not informed about arrangement

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### LEASE FINANCING MOST IMPORTANT

#### Q1. What is lease

Leasing is a general contract between the owner and user of the asset over a specified period of time.

#### Q2. Significant Features of Operating Lease

- Does not secure for the lessor the recovery of capital outlay plus a return on the funds
- 2. Cancellable with proper Gaffice. tech
- 3. Shorter than the asset's economic life
- 4. Lessee is obliged to make payment until the lease expiration

### Q3. Finance Lease (Capital Lease) Meaning and Significance

- 1. A financial lease is longer term
- 2. It is generally non-cancellable or cancellable at high penalty
- 3. Equipment is leased for the major part of its useful life.
- 4. Lessee has the right to use the equipment while the lessor retains legal title

5. It is nothing but a loan in disguise

Q4. DIFFERENCE BETWEEN FINANCIAL LEASE AND OPERATING LEASE

#### Ownership-

Financial Lease- The risk and reward incident to ownership are passed on to the lessee Operating Lease- Risk incident to ownership belong wholly to the lessor. Risk of Obsolescence-

Financial Lease-Lessee bears the risk

Operating Lease-lesson bears the risk Cancellable-

Financial Lease- non-cancellable by either party

**Operating Lease-** the lease is kept cancellable by the lessor

### **Repairs and Maintenance-**

Financial Lease- Lessee bear the cost of repairs maintenance or operations.

Operating Lease- lessor bears cost of

repairs, maintenance or operations.

Covering cost of asset-

Financial Lease- Covers cost + Return Operating Lease- Does not cover full cost

#### Q5. Sale Aid Lease

- Lessor enters into a tie up with a manufacturer for marketing the latter's product through his own leasing operations, it is called a sales-aid lease
- 2. The manufacturers may grant either credit or a commission to the lessor
- 3. Lessor earns from both sources

### Q6. Leveraged Lease

- 1. Under this lease, a third party is involved beside lessor and lessee.
- 2. The lessor borrows a part of the
- asset from the third party.
- 3. The lender is paid off from the lease rentals directly by the lessee and the surplus after meeting the claims of the lender goes to the lessor.
- 4. The lessor is entitled to claim depreciation allowance.

### Q7. Sale and Lease back

 The owner of an asset sells the asset to a party (the buyer), who in turn leases back the same asset to the owner in consideration of a lease rentals.

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- The asset is not physically exchanged but it all happen in records only.
- 3. Also, Lessee can satisfy himself completely regarding the quality of an asset.
- 4. Under this transaction, the seller assumes the role of lessee and the buyer assumes the role of a lessor.

Q8. Close-ended and Open-ended Leases

In the close-ended lease, the assets get transferred to the lessor at the end of lease, the risk of obsolescence, residual value etc., remain with the lessor being the legal owner of the asset.

In the open-ended lease, the lessee has the option of purchasing the asset at the end of the lease period.

Q9. Advantages of Leasing- Exam November 2018

(1) Lease may be low cost alternative:

- (2) Tax benefit:
- (3) Working capital conservation:
- (4) Preservation of Debt Capacity:

(5) Obsolescence and Disposal:(6) Restrictive Conditions for Debt Financing:

#### Q10. Limitations of Leasing

- 1. The lease rentals become payable immediately and no moratorium period is permissible
- 2. Default in payment by the lessor leads in seizure of assets by banks causing loss to the lessee.
- 3. Lease financing has a very high cost

# end of lease, the risk of obsolescence, chyribu.xyz (Online Study)

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Cash Management- Theory from Chapter 10 (WCM) Q1. What is the meaning of Treasury management and key Goals	<ul> <li>Q3. Various purposes of cash budgets</li> <li>1. Plan for and control cash receipts and payments.</li> <li>2. Identifies the period(s) of shortage of cash or an abnormally large cash</li> <li>3. To take advantage like cash discounts</li> </ul>	collection centres are deposited with their respective local banks , which in turn transfer to head office. Q16. Lock Box System 1. A lock box arrangement usually is on
<u>corporate handling of all financial</u> <u>matters'</u> key goals of treasury management	<ul> <li>4. Plan/arrange adequately needed funds</li> <li>O4 Different Kinds of Elect with</li> </ul>	regional basis which a company chooses according to its billing patterns. 2 Eliminate the time between the
are:- a. Maximize the return on the available cash;	Reference to Management of Cash 1. Billing Float- The time between the sale and the mailing of the invoice	receipts of remittances by the company and deposited in the bank.
<ul> <li>b. Minimize interest cost on borrowings; CMa.tech</li> <li>c. Mobilise cash for corporate ventures</li> <li>d. Reduce the risk of currency fluctuation</li> </ul>	<ul> <li>2. Mail Float-time when a cheque is S being processed by post office</li> <li>3. Cheque processing float-time required for the seller to sort, record and deposit the cheque</li> <li>4. Bank processing float-time from</li> </ul>	Q17. Virtual Banking & its advantages Virtual banking refers to the provision of banking and related services through the use of information technology Advantages: a. Lower cost of handling a
Q2. Functions of Treasury Department a. Cash Management: b. Currency Management:	the deposit of cheque to crediting of funds in the seller's account	transaction. b. Increased speed c. Lower cost of operating branch
c. Fund Management d. Banking:	<ul> <li>Q15. What is Concentration Banking?</li> <li>1. Establishes a number of strategic collection centres in different</li> </ul>	d. Improved and a range of services e. Rapid, accurate and convenient.
e. Corporate Finance	regions instead of a single collection 2. Reduces the period between the time a customer mails in his	Q18. Three principles relating to selection of marketable securities a. Safety: b. Matunity:
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Q19. Advantages of Electronic Cash Management System

- a. Significant saving in time.
- b. Decrease in interest costs.
- c. Less paper work.
- d. Greater accounting accuracy.
- e. Supports electronic payments.
- f. Faster transfer of funds from one location to another, where required.
- q. Speedy conversion of various instruments into cash.
- h. Produces faster electronic reconciliation.

assumptions

- a. Developed a model for optimum cash balance which is used in inventory management
- b. Trade-off between cost of holding cash
- c. The two opposing costs are equal and where the total cost is minimum. The model is based on the following assumptions:
- 1. Cash needs of the firm are known with certainty.
- 2. Cash is used uniformly and it is also known with certainty.

- 3. Holding cost is known and it is constant.
- 4. Transaction cost also remains constant. C= (2AT/H)<sup>1/2</sup>

### Q21. Miller - Orr Cash Management Model

- 1. According to this model the net cash flow is completely stochastic.
- 2. When changes in cash balance occur randomly, the application of control theory serves a useful purpose.
- 3. When the cash balance reaches the
- Q20. Baumol's Model of Cash Management and also write its tech yr 100 . X yz is invested in

marketable securities account

- 4. When it touches the lower limit, a transfer from marketable securities account to cash account is made. During the period when cash balance stays between (h, z) and (z, 0)
- 5. These limits satisfy the demands for cash at the lowest possible total costs.

 $3/4 \times Transaction Cost \times Variance of Cashflows$ Spread = 3 Interest rate

#### Q22. MAXIMUM PERMISSIBLE BANK FINANCE (MPBF)- TANDON COMMITTEE

The Tandon Committee set by RBI suggested three lending norms which

#### are as follows:

### Lending Norms

- I. MPBF = 75% of [Current Assets] Less Current Liabilities] i.e. 75% of Net Working Capital
- MPBF = [75% of Current Assets] II. Less Current Liabilities
- III. MPBF = [75% of Soft Core Current Assets]Less Current Study) Liabilities

### The salient features of new credit system were:

- a. For borrowers with requirements of upto Rs. 25 lakhs -without going into detailed evaluation
- b. For borrowers with requirements above Rs. 25 lakhs, but upto Rs. 5 crore- 20% of the projected gross sales of the borrower.
- c. For borrowers not falling in the above categories, the cash budget systems may be used to identify the working capital needs.

# Chapter 3 Ratio Analysis

# Page No. 3.1

1	a. Current ratio	Current Assets	11	DEBT TO TOTAL ASSETS	Total long Term debt	
	b. Working capital ratio	Current liabilities		RATIO	Total Assets	
	c. Solvency ratio		12	CAPITAL GEARING RATIO	Preference share capital+	
2	a. Quick ratio	Quick Assets			Debentures+ other borrowed funds	
	b. Acid ratio	Current Liabilities			Equity share capital+ R&S - Losses	
	c. Liquid ratio		13	PROPRIETARY RATIO	Proprietary Assets	
3	Net Working Capital ratio	Current assets- Current liabilities			Total Assets	
4	a. Absolute cash Ratio	Cash and Bank Balance +	1) :	Shareholder's equity = Equity	share capital + preference share	
	b. Absolute Liquidity ratio	Marketable securities		capital+ Reserves and surplus	- Fictitious assets	
		Current liabilities	2) :	Shareholder's equity is also k	nown as NET WORTH or NET	
5	a. Basic defense	Cash and Bank Balance +	4	Assets		
	b. Interval measure	Marketable securities	3)	Proprietary assets = Eq. shar	e capital+ pref. share cap+ R&S-	
		Operating expense/ Number of		osses- Fictitious assets		
		days	4)	Total Long term fund = Total	Assets- Current liability	
Curr	Current Assets - Inventories + Sundry Debtors + Cash and Bank			5) Net Worth= Total Assets- Current liability- Long Term Liability		
Bala	nces + Receivables/ Accruals +	Lecnyr 1 011 X Y Z Loans and Advances + Disposable	1(4)	IToltall Assets tudnover Catyo)	Sales	
Inve	stments + Any other current a	ssets.			Total assets	
Curr	ent Liabilities - Creditors for	goods and services + Short-term	15	Fixed asset Turnover ratio	Sales	
Loan	ıs +Bank Overdraft + Cash Crea	dit + Outstanding Expenses +			Fixed assets	
Prov	ision for Taxation + Proposed	Dividend + Unclaimed Dividend +	16	Capital T/O ratio	Sales	
Any	other current liabilities				Net assets	
Quic	<mark>k Assets</mark> -Current Assets - I	nventories - Prepaid expenses	17	Current Asset T/O ratio	Sales	
6	Interest coverage ratio	EBIT			Current assets	
		Interest	18	Working capital turnover	Sales	
7	Preference dividend	Earnings after tax or Net profit		ratio	Working capital	
	coverage ratio	Preference dividend liability	19	Inventory T/O ratio	COGS	
8	EQUITY RATIO	Shareholder's equity			Average Inventory	
		Capital employed			Average inventory =	
9	DEBT RATIO	Total long term liability			(Op. stock + Cl. Stock)/2	
		Total Capital			Or	
10	DEBT TO EQUITY RATIO	Total long term liability			Sales	
		Share Holder's Equity			Average Inventory	

# Chapter 3 Ratio Analysis

# Page No. 3.2

20	Debtor T/O ratio	Credit sales	32	Return on assets (ROA)	EBIT (1- tax)
		Average Account receivable			Average Total assets
21	Debtor velocity ratio	Average account receivables	33	Return on capital employed	EBIT
		Average daily credit sales		(ROCE) – pre tax	Capital employed
		or	34	Return on capital employed	EBIT (1-tax)
		360days/52 weeks/ 12 months		(ROCE) – post tax	Capital employed
		Debtor turnover ratio	35	Return on Equity	EAT- Preference dividend
					Net worth/ Equity shareholder's
22	Payable T/O ratio	Annual Credit purchase			fund
		Average Account payable	36	Earnings Per share	Net profit available to equity
					shareholders
23	Creditor/ payable velocity	Average account payable			Number of equity shares
	ratio	Average daily credit purchase			outstanding
		or	37	Dividend per share	Dividend paid to equity
		360days/52 weeks/ 12 months			shareholders
	CM	a.teedilorytilinablerUlatioxyZ	(C	nline Study)	Number of equity shares
24	Gross Profit ratio	Gross Profit			outstanding
		Sales	38	Dividend payout ratio	<u>Dividend per share</u>
25	Net Profit ratio	Net Profit			Earnings per share
		Sales	39	Price Earnings Ratio	= <u>Market Price per Share(MPS)</u>
26	Operating profit ratio	Operating Profit / Sales		P/E ratio	Earnings per Share(EPS)
27	Expense ratio-	Cost of goods sold	40	Dividend Yield	Dividend
	<u>Cost of goods sold ratio</u>	Sales			Market price per share
28	Expense ratio-	admin + Selling and distribution	41	Earnings Yield	Earnings per share (EPS)
	<b>Operating EXPENSE ratio</b>	OHDS			Market price per share (MPS)
		Sales	RET	URN ON EQUITY USING DU	J- PONT MODEL
29	Expense ratio-	COGS+ Operating. Expense		ET PROFIT MARGIN X ASSE	T TURNOVER RATIO × EQUITY
	<u>Operating ratio</u>	Sales	Net	Profit x Revenue	x Total Assets
30	Expense ratio-	Financial expense	Reve	enue Total assets	Net worth
	<u>Financial expense ratio</u>	Sales	Equi	ty multiplier adds the leverage	effects.
31	Return on investment (ROI)	Return/ Profit/ Earnings			
		Investment			

Particular Formula		Equity Share capital		
De	bt and term loan	As per Dividend	Ke = _ D	
Cost of	Interest (1-tax) + (RV- NP)/n	Price Approach-	PO	
redeemable debt	(RV+NP)/2	with Zero Growth		
Cost of	Interest (1-tax)	As per Dividend	Ke = <u>D1</u> + g	
Irredeemable	Net proceed of the issue	Price Approach-	PO	
debt		with Growth		
Cost Of Term	Interest (1-t)	As per Dividend	Ke = D1 + g	
Loan		Price Approach-	P-F	
Cost of	Interest (1-tax) + (RV- NP)/n (1-t)	with Growth and		
redeemable debt	(RV+NP)/2	Flotation cost		
With Capital Gain tax		As per Dividend	Ke= <u>D1</u> +g	
- Special case		Price Approach-	PO (1-f)	
CMP is to be used v	vnen question mentions the word	with Growth and		
current Market pr	<pre>cma.techyribu.xyz</pre>	(Flotation Cost in %U	ay)	
-	-	As per Earning Price	Ke = E	
P	reference Share	Approach- with NO	PO	
Cost of	Preference Dividend + (RV- NP)/n	Growth		
redeemable	(RV+NP)/2	As per Earning Price	Ke = <u>E1</u> + g	
Preference Share		Approach- with	PO	
Cost of	Preference dividend	Growth		
Irredeemable	Net proceed of the issue	CAPM	Ke= Rf + (Rm-Rf)β.	
Preference Share			Where, Rf = Risk Free rate	

CMP is to be used when question mentions the word current Market price

Special Note:- In the above formulas, it is the amount of interest and not the percentage of interest

Retained Earnings				
Cost of Retained	Ks= Ke			
earnings				

Rm= Market risk

(Rm-Rf) = risk premium

### Chapter 4 Cost Of Capital

Cost of Retained	Ks= Ke-tp
earnings- under	Or
personal tax	Ke x (1-t) x (1-tp)

Growth formula	<ol> <li>Steps to be followed:</li> <li>Take the number on your calculator</li> <li>Press the root button 12 times</li> <li>Subtract 1 from it</li> <li>Divide by the root you wanted. If suppose u wanted 5th root divide it</li> </ol>
	by 5 5. Add 1 6. Press 'x' '=' 12 times 7. Subtract 1 and press 100
Growth formula- Only for Gordon	Growth (g) the chyribu . Xyz r = rate of return on the fund b = earnings retention ratio/ rate

### Weighted Average Cost of capital

Book Value Weight	Market Value Weight
<ol> <li>Derived From Book</li></ol>	<ol> <li>Derived From values in</li></ol>
value	the market.
2. Retained earnings are	<ol> <li>Can be calculated by</li></ol>
Available at Book value	multiplying
<ol> <li>Data is Available from</li></ol>	number of securities x
Balance sheet	price per security
	3. Retained earnings are not available directly. Rather
	they are hidden in the

value of equity share capital. 4. Thus we need to divide the value of Equity in two parts- Share capital and reserve and surplus using book value as weight
5. No of share x price
Equity <sup>®</sup> Retained earnings
(Ke) (ks/Kr)
Using Book value as weight

### CalculationSof WACC using Book value

### or Market Value as weight

Particular	Cost	Capital	Weight	WACC
Equity	Ke	Xx	W1	Ke x W1
Pref. sh.	Кр	Xx	W2	Kp x W2
Ret. Eng.	Kr or Ks	Xx	W3	Ks x W3
Debt	Kd	xx	W4	Kd x W4
				Ko = WACC

Note:

- 1. capital May be book value or Market value but will be specified in question
- Also, Note that a single table with 3 additional column can be used to solve question with both Book value and Market Value as weight

Page No. 4.2

# Chapter 5 Capital Structure

# Page No. 5.1

١	/ery Important Formulas 🛛 🔶	Capital Structure Theories
Formula	Value of debt x Cost of debt = Coupon	1. Net Income Approach (NI) Approach-
for Value	(interest)	(Crux- WACC is affected by cap. Structure. Both Ke
of Debt	Or	and Kd remains constant)
	Value of debt = Interest / cost of debt	a) Kd = cost of debt
Value of	Value of Equity x cost of equity = EBT	b) Ke is cost of equity
equity	(since under this assumption there is no	c) Cost of debt Kd is always less than Ke.
• •	tax rate).	d) Kd and Ke remains constant at all the levels of debt- equity
	Or	mix.
	Value of equity = EBT/ cost of equity	e) This Theory suggests maximum use of cheaper fund, Debt
Value of	Value of the firm = Value of debt +	
Firm	Value of equity	Traditional Approach
	Or	(Crux- WACC is affected by cap. Structure. Both Ke and Kd
	Value of the firm = EBIT/WACC	changes, with steeper rise in Ke, and thus WACC changes)
	These Formulas are used to find value of 177	a) Cost of Debt Ka is always less than cost of equity Ke
	the firm. All these 4 Formulas are to be	(b) Indianal Revaries with the change in debt equity mix
	used simultaneously	increase in cost of debt
EBIT	EBIT- $I_1$ (1-t) -PD <sub>1</sub> = EBIT- $I_2$ (1-t) - PD <sub>2</sub>	d) Thus the WACC is affected by change in capital structure
Indifference	E1 E2	
	Where I= Interest	Indifference Approach
	PD = Preference dividend	Net Operating Income Approach
	E1 and E2 are no of equity shares	(Crux- WACC is not affected by cap. Structure. Both
Financial	Interest + PD	Ke and Kd changes but in opp. direction and thus
BEP	(1-+)	WACC remains constant)
	Or.	a. The market <u>capitalizes the value of the firm as whole</u> .
	(x- Int.) (1-t) - PD	b. Thus the split between debt and equity is not important.
Optimum	Where EPS under given plans is maximum	c. advantage of low cost debt is set off exactly by increase in
Capital	<b>J</b>	equity capitalization rate.
Structure		d. overall cost of capital (Ko) remains constant

### Chapter 5 Capital Structure

# Page No. 5.2

Modigliani- Miller Approach (MM)	
(Crux- WACC is not affected by cap. Structure. Both Ke	
and Kd changes but in opp. direction and thus WACC	1. Val
remains constant)	2. Val
MM Approach is refinement of Net operating income approach.	3. Ke
The theory is same with some additional propositions.	

#### MM approach – 1958 without tax

Propositions were derived by MM approach

- 1. Value of levered firm (Vg) = Value of unlevered firm (Vu).
- 2. Value of a firm = Net operating income (NOI)/ Ko
- 3. Ke = KO + (KO Kd)x Debt/Equity

7 Steps in Calculation of MM Problems under		7 Steps in Calculation of MM Problems under		
	NO TAX approach	WITH TAX approach		
Step 1	Calculate/ Find EBIT	Calculate/ Find EBIT		
Step 2	Find the Value of Equity of Unlevered firm.	Find the Value of Equity of Unlevered firm.		
	Veu= <b>EAT</b> (EBT or EBIT, since no int and tax)	Veu= <b>EAT</b> [(where EAT= EBIT-int.)-tax]		
	Ke	Ke		
Step 3	Value of Equity of Unlevered firm =Value of	Value of Equity of Unlevered firm =Value of unlevered firm =		
	unlevered firm = Value of Levered firm	Ven = Vfn Study		
	Ve = Vu	Since in Ungeared firm there in no debt		
	Since in Ungeared firm there in no debt	Vf= Ve+ <del>Vd</del> (since no debt)		
	Vf= Ve+ <del>Vd</del> (since no debt)			
Step 4	Find the value of geared firm	Find the value of geared firm		
	Vu = Vg As per NOI approach	Vg = Vu + Tb As per NOI approach		
		Tb = tax benefit = amount of debt x rate of tax		
Step 5	Vg= Vd+ Veg	Vg= Vd+ Veg		
Step 6	Keg = <u>EAT or EBT</u>	Keg = <u>EAT</u>		
	Veg	Veg		
Step 7	Calculation of WACC	Calculation of WACC		
	Kog = (Kd × Weight of debt) + (Ke × Weight of equity)	Kog = (Kd × Weight of debt) + (Ke × Weight of equity)		
Note	Be careful while calculating WACC under tax appro	ach .You may mistakenly take Kd = Interest instead of		
	Kd= Interest (1-tax)			

	Chapter 6- Leverage					
Particular	Operating leverage Or Decree of Operating	Finance leverage Or Deenee of Einenee levenees	Combined leverage Or Decree of Combined			
	levernne	or	levernne			
	or	DFL	or			
	DOL		DCL			
Advantage of What?	Taking The Advantage of Operational Fixed Cost (Fixed cost)	Taking The Advantage of Fixed Financial Obligation (Interest and Preference dividend)	Taking The Advantage of both Operational Fixed Cost and Fixed Financial Obligation			
What does it signifies	Signifies that for every 1% xy change in sale there will be (1× OL)% change in EBIT	Signifies that for every 1%) change in EBIT there will be (1x FL)% change in EPS	Signifies that for every 1% change in sale there will be (1x CL)% change in EPS			
Formula No. 1	DOL = Contribution EBIT	DFL = <u>EBIT</u> EBT- <u>PD</u> (1-†)	DCL = <u>Contribution</u> EBT- <u>PD</u> (1-t)			
When to use the formula?	When Data is given for Single years					
Formula No. 2	DOL = <u>% Change in EBIT</u> % Change in Sales	DFL = <u>% Change in EPS</u> % Change in EBIT	DCL = <u>% Change in EPP</u> % Change in Sales			
When to use the formula?	When Data of two years is Given					
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# 6.3.3 Chart Showing Operating Leverage, Financial Leverage and Combined leverage

Profitability Statement		
Sales	XXX	
Less: Variable Cost	(xxx)	
Contribution	XXX	1
Less: Fixed Cost	(xxx)	Operating
Operating Profit/ EBIT	XXX	Combined
Less: Interest cma.techyrib		(Online Studewarage
Earnings Before Tax (EBT)	XXX	Financial
Less: Tax	(xxx)	J Levarage J
Profit After Tax (PAT)	XXX	
Less: Pref. Dividend (if any)	(xxx)	
Net Earnings available to equity	XXX	
shareholders/ PAT		
No. Equity shares (N)		
Earnings per Share (EPS) = (PAT ÷ N)		

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# Chapter 7 Capital Budgeting

Particulars	Payback period	ARR or Average rate of return	Reciprocal payback
		or, Accounting rate of return	
Whether Discounting	Non Discounting	Non Discounting	Non Discounting
or Non Discounting			
What does it signifies	It is the time required to recover back	This method gives rate of return	The reciprocal of the
	the principal amount invested	of the project without	payback would be a
		considering time value of Money.	close approximation
		This method use Profit after tax	of the Internal Rate
		and not cash flow for analysis	of Return
Formula	Max year of Insufficient recovery +	ARR= Average PAT × 100	Reciprocal payback=
	Balance Recovery	Average Investment	1/ Payback Period
	recovery in next year	Or,	
		ARR= <u>Average PAT x</u> 100	
	ama taabuudibu uura (A	Original Investment	
	cma.lecnyridu.xyz (O	Where average $PAT \neq I$	
		Total PAT ÷ No. of years	
Steps	Make table of-	Calculate Average PAT	
	1. Year, Cash Flow, Cumulative cash	Calculate Average investment or	
	flow.	original Investment ( as the case	
	2. Select the year till when the	may be)	
	investment is not recovered fully.	Apply the formula	
	3. Then apply the formula		
Criteria of selection	Project with lower payback is beneficial	Higher ARR is Preferable	Higher Reciprocal
			Payback gives Higher
			approximate Payback.
Precaution	None	ARR is to be calculated on PAT	None
		and not cash flow	
Reference with table	Refer Column - A,B and E	Refer Cash Flow Format	
below			

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Particulars	Discounted Payback	NPV	Profitability Index
Whether Discounting	Discounting	Discounting	Discounting
or Non Discounting			
What does it signifies	It is the time required to recover back	Signifies that how	Signifies how much is earned
	the principal amount invested	much is the gain or loss	for every rupee invested
	considering the impact of Discounting	on the project after	
		considering TVM	
Formula	Max year of Insufficient recovery +	PV of Inflow - PV of	= <u>PV of Inflow</u>
	Balance Recovery	outflow	PV of Outflow
	Discounted recovery in next year		
Steps	Make table of-	Make Table-	Make Table-
	1. Year, Cash Flow, PV factor, DCF,	1. Year, Cashflow,	1. Year, Cashflow, PV
	CDCF Cumulative discounted cash	PV factor, DCF	factor, DCF
	Chieflow.	2. Make sum total	2. Make sum total of PV
	2. Select the year till when the	of PV of Inflows	of Inflows
	investment is not recovered fully.	3. Then apply the	3. Take PV of Outflow
	3. Then apply the formula	formula	4. Then apply the formula
Criteria of selection	Project with lower Discounted payback is	Higher or Zero NPV will	Higher PI is selected
	beneficial	lead to project	
		selection	
Precaution	While applying the formula, consider	None	None
	discounted cashflow column and not		
	cashflow column		
Reference with table	Refer Column - A,B, C, D and F	Refer Column - A,B, C,	Refer Column - A,B, C, and D
below		and D	
What about project		Equated annual Value	
with unequal life		NPV ÷ PVAF ( of	
		two projects)	

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### Chapter 7 Capital Budgeting

Particulars	Internal Rate of Return (IRR) or Internal rate of return (ERR)	
Whether Discounting	Discounting	
or Non Discounting		
What does it signifies	Signifies that how much the <b>PROJECT IS ACTUALLY EARNING</b>	
What happens at IRR	1. NPV= 0	
	<ol><li>Therefore, at IRR PV of Inflow = PV of Outflow</li></ol>	
	3. At IRR, Profitability Index (PI) = 1	
Formula	Lower rate + NPV of lower rate $\times$ (difference in rate)	
	Difference in NPV	
Steps	Make table of-	
	1. Year, Cash Flow, <u>PV factor at 1<sup>st</sup> rate</u> , <u>DCF at 1<sup>st</sup> rate</u>	
	and then <u>PV factor at 2<sup>nd</sup> rate</u> DCF using 2nd rate.	
	2. Then apply the formula	
Criteria of selection	Higher IRB chyribu.xyz (Online Study)	
Precaution	None	
Reference with table	A, B, C, D and H	
below		

Table 1- calculation of Payback, Discounted Payback, NPV, IRR

Year	Cash flow	PV factor @10 %	DCF	CCF	CDCF	PV factor	DCF @ y%
						@ y rate	
A	В	С	D	E	F	G	н
0	(xxxxx)	1	B×C			1	В×Е
1	xxxxx	0.909	B×C	Sum B	Sum D	0.869	В×Е
2	xxxxx	0.826	B×C	Sum B	Sum D	0.756	В×Е
3	xxxxx	0.751	B×C	Sum B	Sum D	0.657	В×Е
4	xxxxx	0.683	B×C	Sum B	Sum D	0.571	B×E
		NPV	XXXXXXX			NPV	XXXXX

When the project is discounted using Ko, it gives PV of inflow.

When the project is discounted using IRR rate it gives PV of Outflow.

PV of outflow is also known as cost the project

### Chapter 8 Risk Analysis in Capital Budegting

The Chapter is based on the concept that projects are prone to risks and thus the project may fail if adverse business circumstances occur. Thus in this chapter we will study various techniques to evaluate the project under adverse situations and if the project still gets selected it will be Taken

Probability based risk analysis	Risk Adjusted	Certainty Equivalent
	Discounted rate	
Calculate Expected value	It is the rate where the	Expected cash flows are multiplied
by Multiplying each cash flow with assigned	risk free rate is	with certainty equivalent a <sup>t</sup> to
probability.	coupled with Risk	make them certain.
You will get expected value	premium to adjust the	
Calculate Variance by taking	uncertainties	
sum of (Expected value- each possible	uncer fumiles.	
event) <sup>2</sup> × Probablity <sub>cma</sub> techyribu	.xyz (Online S	tudy)
Calculate Standard deviation by by taking		Now this uncertain cash flows are
Square root of the value derived		converted into certain cashflow and
		now you need to discount them with
Higher the Standard deviation, higher is the risk.		risk free rate
Calculate Coefficient of variation by		Note: While discounting take risk
Standard deviation/ Expected Value		free rate of return and not the risk
		associated rate of return
Higher The coefficient of Variation denotes higher		
risk.		
If there are two projects one with lower		
coefficient of Variation and Other with Higher		
coefficient of Variation. Select project with lower		
coetticient of Variation as it denotes lower risk		

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Chapter 8 Risk Analysis in Capital Budegting Page No.							
	Sensitivity Analysis	Scenario Analysis					
Project is affected by	various factors such as (	Cost of Capital,	All input variables change				
Initial Cash outflow, A	nnual cash inflows, Life o	f the project, etc	simultaneously				
In Sensitivity analysis	we take into consideratio	on the impact of	Here the project will be given and we				
change in each Factor,	and calculate Revised NF	٧	need to evaluate project as per their				
			instruction				
The NPV which is derive	ed from above calculatio	n is then compared	Generally, In the question we are given				
and the Factor which le	eads to least NPV is the i	most sensitive	three outcomes,				
factor.			Best Outcome				
The Identified sensitiv	ve factor is generally the	n considered most	Most Likely Worst Outcome				
critical by management	and thus taken care						
Note: In sensitive analy	ysis we consider changing	ONE VARAIBLE					
at a time and not all th	envariables at the time.	<u>xyz (Online</u>	Study)				
			Also some times we are asked to				
Factors and When they	/ become adverse or favo	orable	calculate the answer with different				
Particulars	Adverse	Favorable	out comes in different years				
Sale price	When it decrease	When it increase					
No. of Units	When it decrease	When it increase					
Cost of production	When it increase	When it decrease					
Fixed cost	When it increase	When it decrease					
Initial proj. cost	When it increase	When it decrease					
Annual Cash inflow	When it decrease	When it increase					
Life of project	When it decrease	When it increase					

Discount rate

When it decrease

When it increase

# Chapter 9 Dividend Decision

# Page No. 9.1

Particular	Formula					
	Basic Formulas					
Earnings per share	Net income (EATESH)					
	No. of Shares					
Payout Ratio	Dividend per share					
	Earning per share					
Retention ratio	1 – Payout ratio					
	Or <u>Retained earnings</u>					
	Total Earnings					
Dividend per share	Total equity Dividend					
	No. of Share					
Dividend rate	cma. Sividend Ver inbre . XYZ					
	Face Value per share					
Dividend Yield	Dividend per share					
	Market Value per share					
Growth (g)	bxr					
	Where b = retention ratio and					
	r = rate of return on investment					
****	1/ PE ratio = Ke					

MM Ma	odel – Most Important
Approach says th	at the value of the firm is independent
of	Dividend payout ratio.
Thus if the compo	any pays 100% dividend or 0%, value of
th	e firm remains constant
Step 1	calculate the share price, assuming no
	dividend is paid
	PO = (P1+D1)
	(1+Ke)
Step 2-	Calculate the number of shares required
	= I-(E-D)n
(0n) in $Ct$	(1+Ke)
Step 3-	Calculate the value of the firm
	Vf= (∆n+n) P1 -I+E
	(1+Ke)
1. Po = Current	market price
2. P1= Expected	d market Price
3. D1= Expecte	d dividend
4. Ke= Cost of	equity
5. E= Earnings	
6. N= original n	number of shares
7. $\Delta$ = addition	al ni. Of shares
8. I= Fixed inve	estment
Repeat the sa	me procedure when divided is paid

# Chapter 9 Dividend Decision

# Page No. 9.2

Eq	uity Share capital	MODEL	
Walter Model	D1 + (E-D) r ke Ke Where 1. D1= Dividend 2. E= earnings 3. Ke= cost of equity 4. R= rate of return		<ul> <li>Where,</li> <li>1. D1 = Dividend in year 1</li> <li>2. D0 = Dividend in year 0 (last year dividend)</li> <li>3. EPS = Earnings per share</li> <li>4. Af = Adjustment factor/ speed of adjustment</li> </ul>
Gordon Model 1. IRR>K, Payout sk 2. IRR <k, maximum<br="">3. IRR= K, Any payo Conclusion is valid f</k,>	<u>Do (1+g)</u> (Ke-g) cma.techyribu.xyz nould be low or Zero. or 100% payout out is optimum For both - Gordon and Walter	(Online St	udy)
GRAHM AND DODD	P = m (D+E/3) Where, 1. P = Market price per share 2. D = Dividend per share 3. E = Earnings per share 4. m = a multiplier		
LINTNER'S	D1 = D0+ [(EPS x target ratio) - D0}x AF		

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N	Vorking Capital (WC)	Formula 1	for Calculation of Holding period
Gross Working Capital Net Working capital	Current asset Current Assets- Current Liabilities Part A	Raw material storage period	Average cost of stock of raw material Average cost of raw material per day 365/ raw material turnover ratio
Manag Metho What it signifies?	<ul> <li>gement of Working capital</li> <li>d 1 - Operating Cycle Method</li> <li>1. It signifies the time required for conversion of RM into WIP into FG into Debtor and then back into cash</li> <li>2. It gives the time required for</li> </ul>	WIP holding period	Average cost of stock of Work in progress Average cost production per day 365/ WIP turnover ratio
Formula 2. If gives the time required for completion of one dyclerand thus they Z fund required for Working capital RM storage Period + WIP Holding		FGhelding ne period	SAvenage cost of stock of Finished goods Average cost of goods sold per day
	period+ FG storage period+ Debtors collection period - Creditors credit	Daktaur	365/ FG turnover ratio
	R+W+F+D -C	Deptors Holding period	<u>Average accounts receivable</u> Average credit sales per day
How to Calculate WC	<ol> <li>Calculate Operating cycle</li> <li>Calculate no. of cycle in one year</li> </ol>		365/ Debtor turnover ratio
requirement	<ol> <li><u>Divide annual operating expenditure</u>.</li> <li>No of operating cycles</li> </ol>	Creditors payment period	<u>Average accounts payable</u> Average credit purchase per day
			365/ Creditors turnover ratio

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COST SHEET		Steps	s in this	type o	f Quest	ions
For calculation of	or calculation of various wc requirement		Step 1 Determine the elements of current asset		nt assets and	
Opening stock of Raw mat	erial	current liabilities				
Add: purchase		Step 2	Determine	e the holding	g period and	the units
Less Closing Stock		Step 3	Determine	e the rate a	t which it sh	ould be value
Raw Material consumed	(Used for calculation of		- Refer to	ble below		
	RM requirement)	Step 4	Find out t	he amount o	f each item	
Add opening WIP		Step 5	Ascertain	The net wor	King capital	considering
Direct manufacturing exp	ense		cush Dulur	ice, iouns un	u uuvunces	erc.
Direct wages			Statement	of WC rea	wirement	
Less closing WIP		<b>Current Assets</b>		Lead/laa	Amount	Total
Cost of production	(Used for Calculation of	Inventory		j		
C	WIP requirement)	- Raw Mat	erial	V)		
Add opening Stock of FG	<u> </u>	- Finished	goods	<i></i> ,		
Less Closing stock of FG		Receivable	<u> </u>			
COGS	(used for calculation of	- Trade de	btors			
	FG)	- Bills				
Add Admin expense		Minimum Cash	balance			
Add S&D expense		Gross working	capital			
Cost of sales		- Trade Pa	vahles/			
		bills pays	able			
N	ethod 2	- Wages Pa	yables			
		- Payables	for			
Estimating wc	requirement through	overhead	ls			
estimation of e	ach individual element	Excess of Curre	nt Assets			
What does it signifies	Requirement of WCM for each	Add: Safety Mar	gin			
	individual element	Net Working C	apital			
		[III + IV]				

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Raw Materials Inventory:	Estimated production in units × Estimated cost of RM per unit × <u>RM holding period</u>
USE RM CONSUMED	12 months or 365 days
Work-in-Progress Inventory:	Estimated production in units × Estimated WIP cost per unit × <u>WIP holding period</u>
USE COST OF PRODUCTION	12 months or 365 days
Finished Goods:	Estimated production in units X Estimated COGS × <u>FG Holding period</u>
USE COST OF GOODS SOLD	(ex. Depreciation/ unit) 12 months or 365 days
Receivables (Debtors):	Estimated credit sales in units x cost of sales x <u>Average debtor collection period</u>
USE COST OF SALES	(ex. depreciation per unit ) 12 months or 365 days
Trade Payables:	Estimated production in units × RM purchased per unit × <u>Avg. creditor payment period</u>
RM PURCHASED	12 months or 365 days
Direct Wages payable:	Estimated production in units × Direct labour cost/ unit × <u>Average time lag in payment</u>
ANNUAL WAGES PAYABLE	12 months or 365 days of wages
Overheads:	Estimated production in units × Ohds per unit × <u>Average time lag in payment of ohds.</u>
ANNUAL OHDS. PAYABLE	. TECNYTIDU.XYZ (UNLINE STUGY Months or 365 days
	360 days may be taken in many cases instead of 365 days in absence of information. However
	assumption shall be written

	RATE OF VALUATION UNDER DIFFERENT APPROACHES						
Component	Total Approach	Cash cost approach					
Raw Material	Purchase price net of discount	Purchase price net of discount					
Work in Progress	Raw material + 50%[ direct labour + direct expenses+	Raw material + 50%[ direct labour + direct expenses+ all					
	all production overheads]	production overheads excluding depreciation]					
Finished goods	Cost of production	Cost of production- depreciation					
Debtors	Selling price	SP- profit margin- depreciation					
Sundry creditors	Purchase price net of discount	Purchase price net of discount					

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	Cash Management Format					
Pacai	'ntc'	<b>AA 1</b>	112	112		
RELEI		WI	MZ	MS	M4	Mn
1.	Opening balance					
2.	Collection from					
debto	ors					
3.	Cash sales					
4.	Loans from banks					
5.	Share capital					
6.	Miscellaneous receipts					
7.	Other items					
Total						
Paym	ents:					
1.	Payments to creditors	a.t	leci	nyr.	1bu	•xy
2.	Wages					
3.	Overheads					
4.	Interest					
5.	Dividend					
6.	Corporate tax					
7.	Capital expenditure					
8.	Other items					
Total						
Closin	ig balance					
[Surp	lus (+)/Shortfall (-)]					

These Variety ofQuestions are not generally asked in exam

Boumol Model	
Boumoul Model	(2AT/H) <sup>1/2</sup> A = Annual Cash requirement T= Transaction cost per transaction H= holding cost in %
Galculation of Interest) forgone	Op bal +Cl. Bal × Interest rate 2
Calculation of Conversion cost	No. of Transaction x cost per transaction
Total cost	Transaction cost + interest cost

### Chapter 10 Working Capital management - Receivable Page No. 10.5

Evaluation of Credit Policy				Format of Factoring			
Particulars	Present	Proposed	Proposed	Proposed	Particulars A		
	Policy	Policy I	Policy II	Policy	I	Cost of In-house Debtors Management	
	$(\mathbf{D}_{\mathbf{r}})$	$(\mathbf{D}_{\mathbf{z}})$	$(\mathbf{D}_{\mathbf{z}})$		۵	Administration cost (avoidable)	
A Francisco d Duchita	(RS.)	(RS.)	(KS.)	(RS.)	b	Bad Debt	
A. Expected Protit:					с	Holding period (Refer note)	
(a) Credit Sales						Total Cost (a+b + e-)	XXX
(b)TotalCostotherthan							
BadDebts					TT	Cost of Factoring	
(i) Variable Costs					0	Total Annual Sales	
(ii) Fixed Costs					b	No of Debtors Cycle	
(c) Bad Debts					-	360/ Drs holding period	
(d) Cash discount					с	Credit sales/ cycle (a/b)	
(e)ExpectedNetProfit	ama	toob	troib		don	Commission (% of c )	
before Tax (a-b-c-d)	Cilla	• Leci	γττρι	ı.xyz	e	Factor reserve (% of c)	
(f) Less: Tax					f	Amount forwarded [ c-d-e]	
(1) Europeted EAT					9	Interest (% on f)	
(g) Expected EAT					h	Total cost per cycle (d+g)	
B. Opportunity Cost					i	Total annual cost of Factoring ( $b \times h$ )	ууу
of Investments in							
Receivables locked up						Total annual cost of Factoring	ууу
in Collection Period					Less	Total In house management cost	XXX
Net Benefits (A - B)						Additional cost of factoring	ZZZ
Ranking							
						Effective cost of factoring = Additional fac	ctoring
Opportunity cost	<u>Total co</u>	st of Debto	ors x Inter	est x HP	cost x amount forwarded per cycle x 100		
		36	5				
For calculation of opp	lation of opp. Cost take cost of Drs. And not						
sales unless data of s	ales in n	ot is aive	1				