#### Course File Content

Faculty: Prof. Sadhana Awate

Class:- MBA I Sem -II

Subject: (202) Financial Management

Sr. No.	Particulars	Remarks
1	Syllabus	
2	Teaching Plan Indicating Dates Planned for Topics and Dates of Topics Covered	
3	Program Educational Outcomes, PO's and Course Outcome	
4	Academic and Activities Calendar	
5	Time Table (Individual & Class Time Table)	V
6	Class Activities Planned	
7	Evaluations Planned and Dates of Evaluations	
8	Unit wise Subjects Notes (power points)	V
9	Question Bank for the Subject	V
10	University Exam Old Question Papers	V
11	Model Solution	4
12	Subject Result	

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DIRECTOR

Sinhgad lastitute of Business Administration & Computer Application Kusgaon (Bk.),

Off Mumbai-Pune Expressway, Lonavala, Dist. Pune 410 401

Semester II		202 – Financial Management
3 Credits	LTP: 2:1:1	Compulsory Generic Core Course

- 1. **Business Finance:** Introduction to Business Finance, Meaning and Definition of Financial Management, Objectives of Financial Management- (Profit Maximization and Wealth Maximization), Modern Approach to Financial Management- (Investment Decision, Financing Decision, Dividend Policy Decision), Finance and its relation with other disciplines, Functions of Finance Manager (3+2)
- 2. Techniques of Financial Statement Analysis: Introduction, Objectives of financial statement analysis, various techniques of analysis viz Common Size Statements, Comparative Statements, Trend Analysis, Ratio Analysis, Funds Flow Statement & Cash Flow Statement (10 + 2)
- 3. Working Capital Management: Meaning of Working Capital, its components & types, Operating Cycle, Factors affecting working capital, Estimation of working capital requirement. (Total Cost Method & Cash Cost Method) (8 + 2)
- 4. Capital Structure: Meaning and Factors affecting Capital Structure, Different sources of finance. Concept and measurement of Cost of Capital (measurement of Specific Cost and WACC), Trading on Equity, Concept of Leverages and its types. (6 + 2)
- 5. Capital Budgeting: Meaning, Definition of Capital Budgeting, Time value of money. Tools of evaluation of the project based on traditional techniques and modern techniques ARR, Payback Period, Discounted Payback Period, NPV, PI & IRR (6+2)

#### Note: Numerical Problems will be asked on following topics only—

- 1. Common Size Statements
- 2. Comparative Statements
- Trend Analysis
- 4. Ratio Analysis (Calculation of ratios plus its interpretation)
- 5. Estimation of working capital requirement (Total Cost Method & Cash Cost Method)
- 6. Operating Cycle
- 7. Measurement of Specific Cost (Cost of Equity, Preference, Retained Earnings and Debt) and WACC
- 8. Capital Structure
- 9. Leverages
- 10. Capital Budgeting (ARR, Payback Period, Discounted Payback Period, NPV, PI & IRR)

#### Suggested Text Books:

- 1. Financial Management, Shashi K. Gupta and R.K. Sharma (Kalyani Publication)
- 2. Basics of Financial Management, V.K. Saxena and C.D. Vashist (Sultan Chand & Sons)
- 3. Financial Management, A Contemporary Approach, Rajesh Kothari (SAGE)
- 4. Financial Management, Dr. Mahesh Abale & Dr. Shriprakash Soni (Himalaya Publishing House Pvt. Ltd.)
- 5. Working Capital Management, Theory and Practice, Dr. P. Periasamy (Himalaya Publishing House)
- 6. Financial Management, I M Pandey (Vikas Publishing House Pvt. Ltd)
- 7. Fundamentals of Financial Management, A.P.Rao (Everest Publishing House)
- 8. Advanced Financial management, N.M. Vechalekar

#### Suggested Reference Books:

- 1. Financial Management, Rajiv Srivastava and Anil Misra (OXFORD University Press)
- 2. Financial Management, Ravi Kishore (Taxmann)
- 3. Financial management, V.K. Bhalla (S. Chand)

Financial Management, Jonathan Berk, Peter DeMarzo and Ashok Thampy (Pearson Publication)



# Sinhgad Technical Education Society's SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION & COMPUTER APPLICATION Kusgaon (Bk.), Lonavala, Pune 410401

## MBA I SEM II TEACHING PLAN

(AY-2021-2022: Semester- II)

Faculty Name: Mrs. Sadhana Awate

Subject: 202: Financial Management

Class: MBA-I Sem II

% Subject Results For Last Two Years:

2019-20

2020-21

Lect. No.	Unit No.	Planned Dates	Topic & Contents Planned	Conducted Dates
1	1	09/5/2022	Introduction to Business Finance, Meaning and Definition of Financial Management,	09/5/2022
2	1	10/5/2022	Objectives of Financial Management- (Profit Maximization and Wealth Maximization),	10/5/2022
3	1	11/5/2022	Modern Approach to Financial Management- (Investment Decision, Financing Decision, Dividend Policy Decision),	11/5/2022
4	1	12/5/2022	Finance and its relation with other disciplines, Functions of Finance Manager	11/5/2022
5	2	17/5/2022	Format of Balance Sheet	12/5/2022
6	2	18/5/2022	Format of Income statement	17/5/2022
7	2	19/5/2022	Comparative statement	18/5/2022
8	2	23/5/2022	Common Size Statement	19/5/2022
9	2	24/5/ <del>2</del> 022	Trend Analysis	23/5/2022
10	2	25/5/2022	Ratio Analysis – All Rations	24/5 (2 lectures)
11	2	26/5/2022	Sums on Ratio analysis	30/5 /2022
12	2	27/5/2022	Sums on Ratio analysis	30/5 (Extra Lect.)
13	2	30/5/2022	Evaluation -1 (Case Study)	1/6/2022
14	2	31/5/2022	Funds Flow Statement (Format)	3/6/2022
15	3	01/6/2022	Cash Flow Statement (Format)	6/6/2022
16	3	03/6/2022	Meaning of Working Capital, its components& types	7/6/2022
17	3	06/6/2022	Operating Cycle, - Sums	7/6/2022
18	3	07/6/2022	Factors affecting working capital	8/6/2022

19	3	08/6/2022	Estimation of working capital requirement - Total Cost Method	09/6/2022
20	3	09/6/2022	Estimation of working capital requirement - Cash Cost Method	09/6/2022
21	3	13/6/2022	Sums on working capital requirement	13/6/2022
22	4	14/6/2022	Meaning and Factors affecting Capital Structure, Different sources of finance	14/6/2022
23	4	15/6/2022	Evaluation 2 – (Test of 20 Marks)	15/6/2022
24	4	16/6/2022	Calculation of Cost of Debt	16/6/2022
25	4	20/6/2022	Calculation of Cost of Equity	20/6/2022
26	4	21/6/2022	Calculation of Cost of Preference share capital	21/6/2022
27	4	22/6/2022	Calculation of WACC	22/6/2022
28	4	23/6/2022	Sums on Capital Structure planning	23/6/2022
29	4	27/6/2022	Sums on Capital Structure planning	24/6/2022
30	4	28/6/2022	Trading on Equity concept	28/6/2022
31	4	29/6/2022	Types of Leverage – formulas	29/6/2022
32	5	30/6/2022	Evaluation 3 – (Test of 10 Marks)	30/6/2022
33	5	04/7/2022	Sums on Leverage	04/7/2022
34	5	05/7/2022	Evaluation – 4 (Project Report Presentation)	05/7/2022
35	5	06/7/2022	Meaning, Definition of Capital Budgeting	06/7/2022
36	5	07/7/2022	Time value of money – Simple interest calculation	07/7/2022
37	5	11/7/2022	Time value of money – Compound interest calculation	08/7/2022
38	5	12/7/2022	Capital Budgeting Techniques – Payback period, ARR period	11/7/2022
39	5	13/7/2022	Evaluation 5 (Assignment)	13/7/2022
40	5	14/7/2022	Capital Budgeting Techniques – NPV and PI	14/7/2022
41	5	18/7/2022	Capital Budgeting Techniques – IRR, Discounted	18/7/2022
42	5	19/7/2022	Combined Sums of All techniques of Capital Budgeting	19/7/2022
43	5	20/7/2022	Combined Sums of All techniques of Capital Budgeting	20/7/2022
44		21/7/2022	Solving of University with model answer paper, Doubt Solving Cession	21/7/2022

Mrs. Sadhana Awate Subject Faculty



Dr. Anit Nagtilak

Director-SIBACA
DIRECTOR
Sinhgad Institute of Business Administration & Computer Application

Kusgaon (Bk.), Off Mumbai-Pune Expressway, Lonavala, Dist. Pune 410 401

# Course Outcomes: Subject:- Financial Management

On successful completion of the course the learner will be able to

Co	COGNITIVE ABILITIES	COURSE OUTCOMES
CO202.1	REMEMBERING	DESCRIBE the basic concepts related to Financial Management, Various techniques of Financial Statement Analysis, Working Capital, Capital Structure, Leverages and Capital Budgeting.
CO202.2	UNDERSTANDING	EXPLAIN in detail all theoretical concepts throughout the syllabus
CO202.3	APPLYING	PERFORM all the required calculations through relevant numerical problems
CO202.4	ANALYSING	ANALYZE the situation and  □ comment on financial position of the firm  □ estimate working capital required  □ decide ideal capital structure  □ evaluate various project proposals
CO202.5	EVALUATING	EVALUATE impact of business decisions on Financial Statements, Working Capital, Capital Structure and Capital Budgeting of the firm



# Programme Outcomes (POs): At the end of the MBA programme the learner will possess the

- 1. **Generic and Domain Knowledge** Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues
- 2. Problem Solving & Innovation Ability to Identify, formulate and provide innovative solution frameworks to real world complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
- 3. Critical Thinking Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
- 4. Effective Communication Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large
- 5. Leadership and Team Work Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
- 6. Global Orientation and Cross-Cultural Appreciation: Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.
- 7. Entrepreneurship Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.
- 8. Environment and Sustainability Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects.
- 9. Social Responsiveness and Ethics Ability to exhibit a broad appreciation of the ethical and value underpinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.

10. **LifeLong Learning** – Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.



# SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION AND COMPUTER APPLICATION SIBACA, Lonavala

Academic Calendar 2021-22: Semester II/IV

		Academic Calendar 2021-22: Semester	. 11/14	
MONTH	DATES	EVENTS / ACTIVITES	COORDINATOR	
	9	Sem II Students Reporting	All Faculty	
	10	Commencement of Lectures	All Faculty	
	12	Guest Lecture on Carrier Opportunities in MBA  Spacializations	Dr. Pradnya Bhandare and Dr. Reena Nath	
	13	External SIP VIVA_VOCE Sem III	Dr. Bharati Jagdale	
May-22	18	Traffic Awareness Programme	Dr. Reena NAth/Dr. Rajendra Bhadale/ Prof Nilesh Patil/ Prof. Sadhana	
	25	Guest Session on IPR	Dr. Pradnya Bhandare, Dr. Reena Nath, Prof Sadhana Awate	
	27	Brand Logo Competition/Brand Quiz	Dr. Rajendra	
	31 1st Evaluation (CIE)	All Faculty		
	1	Guest Session on Human Rights	Dr. Krishna Sharma	
	3	Local Industrial Visit (Parle-G)	Dr. Bharati Jagdale/ Prof. Nilesh Patil	
	5	Environmental Day	Mr. Satish Kamble	
	6	Hariyali (Tree Plantation Programme)	All Faculty	
	9	Khari Kamai	All Faculty	
Jun-22	13	Resume Building Workshop (Dr. Jayesh Minase - Dean, Central Placement Cell)	Dr. Bharati Jagdale	
	15	Days Celebration	Dr. Bharti Jagdale & Dr. Pradnya Bhandare	
	17	2nd Evaluation (CIE)	All Faculty	
	21	International Yoga Day	Dr. Bharati	
	24 - 30	3rd Evaluation (CIE)	All Faculty	
	6	Business Plan	Dr. Krishna Sharma/ Prof. Nilesh Patil	
	11	3rd Evaluation (CIE)	All Faculty	
	13	Bhatkani	Dr. Rajendra Bhadale / Dr. Krishna Sharmo	
Jul-22	19	Guest Lect on Udyojak-An Entrepreneurship Development Program	Dr. Krishna Sharma	
	21	Alumni Meet	Dr. Bharati Jagdale/ Prof. Nilesh Patil	
	22-25	Remedial Classes and Pending Evaluation	All Faculty	
	25-29	Final Internal Exam	All Faculty	

Note : Holiday list may change as per the STES circular

Evaluation will be adjusted as per the dates of SPPU online examination

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Lonavala, Dist. Pune 410 401

# FINANCE Sinhgad Institute of Business Administration & Computer Applications, Lonavala DIVISION -**MBA SEM II** TIME-TABLE-- 2021-22

ROOM NO: 209

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 am -09.25 am	202-FM				205-FMBO
09.25 am -10.20 am		202-FM			404 - CT & CF
10.20 am -10.35 am			Short Recess		
10.35 am -11.30 am	403- FL	205-FMBO	403- FL	202-FM	206-PFP
11.30 am -12.20 pm			202-FM	404 - CT & CF	
12.20 pm- 01.20 pm			Lunch Break		
01.20 pm- 02.10 pm	404 - CT & CF			205-FMBO	403- FL
02.10 pm- 03.05 pm		404 - CT & CF		403- FL	
03.05 pm- 03.10 pm			Short Recess		
03.10 pm- 04.05 pm		206-PFP	205-FMBO	206-PFP	
04.05 pm- 05.00pm	206-PFP	Case Study	STP		

Summary:			
Subject	Faculty	Subject	Faculty
201-GC- Marketing Management	Prof. N. Patil	207 -UL-Contemporary Frameworks in Management Dr. Krishna Sharma	Dr. Krishna Sharma
202-GC- Financial Management	Prof. Sadhana Awate	Prof. Sadhana Awate 209-UL- Startup & New Venture Management	Dr. Reena Nath
203 -GC-Human Resource management	Dr. Krishna Sharma	210-UL- Qualitative Research Management	Dr. B. Jagdale
204 -GC-Operations & Supply Chain Mgmt	Dr. R. Bhadale	214-IL- Industry Analysis & Desk Research	Dr. Pravin Bodade
205-SC- Financial Market & Banking		11-71- Securities Analysis & Portfolio Management	Jelitaci in a vo
Operations	Prof. Sadhana Awate	21/ 1c occanico analysis and ciono management	UI. AIIII NABUIAN
political Derivation   Eineral Dinning		223 -IL-Fundamentals of Life Insurance – Products &	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Prof. Sadhana Awate	Underwriting	UI. AIIII Nagullak

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Time Table Incharge

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Kusgaon (Bk.), Off Mumbal-Puna Expressway, Lonavaia, Dist. Puna 410 401

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# FINANCE Sinhgad Institute of Business Administration & Computer Applications, Lonavala DIVISION -**MBA SEM II** TIME-TABLE-- 2021-22

**ROOM NO: 209** 

Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 am -09.25 am	202-FM	201- MM	204-OSCM	203-HRM	205-FMBO
09.25 am -10.20 am	201- MM	202-FM	203-HRM	201- MM	204-0SCM
10.20 am -10.35 am			Short Recess		
10.35 am -11.30 am	204-0SCM	205-FMBO	201- MM	202-FM	206-PFP
11.30 am -12.20 pm	207-CFM	204-0SCM	202-FM	209-SNVM	210-QRM
12.20 pm- 01.20 pm			Lunch Break	0.00	
01.20 pm- 02.10 pm	203-HRM	203-HRM	210-QRM	205-FMBO	207-CFM
02.10 pm- 03.05 pm	214-IADR	217-SAPM	217-SAPM	214-IADR	223 - FLIPU
03.05 pm- 03.10 pm			Short Recess		
03.10 pm- 04.05 pm	209-SNVM	206-PFP	205-FMBO	206-PFP	
04.05 pm- 05.00pm	206-PFP	Case Study	STP	223 - FLIPU	

Summary:			
Subject	Faculty	Subject	Faculty
201-GC- Marketing Management	Prof. N. Patil	207 -UL-Contemporary Frameworks in Management Dr. Krishna Sharma	Dr. Krishna Sharma
202-GC- Financial Management	Prof. Sadhana Awate	Prof. Sadhana Awate 209-UL- Startup & New Venture Management	Dr. Reena Nath
203 -GC-Human Resource management	Dr. Krishna Sharma	210-UL- Qualitative Research Management	Dr. B. Jagdale
204 -GC-Operations & Supply Chain Mgmt	Dr. R. Bhadale	214-IL- Industry Analysis & Desk Research	Dr. Pravin Bodade
205-SC- Financial Market & Banking		217-IL- Securities Analysis & Portfolio Management Dr. Anil Nagtilak	Dr. Anil Nagtilak
Operations	Prof. Sadhana Awate		
		223 -IL-Fundamentals of Life Insurance – Products &	Acitach Nactilah
ZU6-SC-Personal Financial Planning	Prof. Sadhana Awate	Anderwriting	I. Alle Nagellan
		200000	

DIRECTOR

Sinhgad Institute of Business Administration

& Offsetor, Bisacal Kusseon (BK.)

Off Mumbal-Pune Expressway, Londvala, Dist. Pune 410 401

Ring Dr. Jean Hath

# Sinhgad Institute of Business Administration & Computer Applications, Lonavala Finance SPECIALIZATION -**MBA SEM IV** TIME-TABLE- 2021-22

**ROOM NO: 202** 

Time	Monday	Tuesday	Wednesday	Thursday	Frida
08.30 am -09.25 am	401-EPM	401-EPM	401-EPM	401-EPM	412-SCM
09.25 am -10.20 am	402- IEBE	402- IEBE	402- IEBE	402- IEBE	404 - CT & CF
10.20 am -10.35 am			Tea Break		
10.35 am -11.30 am	403- FL	409- FIS	403- FL	408- CSR	412- SCM
11.30 am -12.25 pm	405- GSM	405- GSM	4043403	404 - CT & CF	409- FIS
12.25 pm- 01.20 pm			Lunch Break		
01.20 pm- 02.10 pm	404 - CT & CF	404 - CT & CF		Library	403- FL
02.10 pm- 03.05 pm				403- FL	
03.05 pm- 03.15 pm			Tea Break		
03.10 pm- 04.05 pm					
04.05 pm- 05.00pm		Case Study	STP		

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Summary:			
Subject	Faculty	Subject	Faculty
401- GC- Enterprise Performance management	Dr. B. Jagdale	405- GE- UL - Global Strategic Management	Dr. B. Jagdale
402-GC- Indian Ethos & Business Ethics	Dr. R. Bhadale	408- GE- UL - Corporate Social Responsibiloity & Dr. B. Jagdale	Dr. B. Jagdale
403- SC - Financal laws	Prof. Sadhana Awate	Prof. Sadhana Awate 409- SE- IL - Fixed Income securites	Dr. Anil Nagtilak
404- SC - Current Trends & Cases in Finance	Prof. Sadhana Awate	Prof. Sadhana Awate 412- SE- IL- Strategic cost management	Dr. Anil Nagtilak





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#### **Class Activity**

#### 1) Paper Planes

Want to find out if your students are up to date with the lessons? The paper planes game is a great way to make learning fun. Ask each student to write a question from experience taught the previous day on a piece of paper.

Divide the class into two teams and ask each of them to make planes out of those papers. Now the groups are to chuck their aircraft at each other. The students pick up the airplanes and answer the questions.

- 2) Group Discussion: Current Events Several Topics.
  - Students can find current events, cases, or newspaper articles and remove the ending/outcome from the article.
  - We can break the class into teams and have them evaluate it and decide how the situation could be resolved using different leadership techniques. For example, how would a scientific manager handle this situation? Or would a telling or participative manager work best here? Another great event to review is the NASA Challenger issue and an opener to talk about Group Think.
  - For my business law class I like finding strange law cases, remove the decisions, then have the students use their knowledge of the materials they were asked to read prior to class to identify how the cases were decided.
  - For a great activity in business communications I will find the same news article on Fox News and on MSNBC (for example) and identify the differences. This is also a good way to demonstrate how to be critical when evaluating online information.





#### **Concurrent Evaluation Parameters**

#### Academic Year 2021-2022

Name of Faculty Member :- Prof. Sadhana Awate

Subject Name & Code :- 202 - Financial Management

MBA I Semester - II

Sr. No	Evaluation Parameter	Date	Reevaluation for slow learners	Marks (50)
1	Assignment	13/7/2022	1817122	10
2	Class Test – 1 Class Test – 2	15/6/2022 30/6/2022	2117122	20
3	Case Study evaluation	01/6/2022		10
4	Project on Ratio Analysis	04/7/2022	2017122	10
	·			50

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Lonavala Dist. Pune 410 401

# MBA I SEM- II 202 Financial Management

Sr. No.	Seat No.	Name of Students	20 CT	10	10 Project	10 Case study	50
1	34816	KIRAN SHIVAJI AVHAD	17	assign 8	8	9	
2	34817	PRATIK NANDKUMAR PATIL		7	7		42
	34818	KUNAL BALU TUNGE	16			8	38
3		ABHISHEK KISHOR RAMTEKE	17	8	8	7	40
4	34819		19	9	9	9	46
5	34820 34821	PRAMOD RAYCHAND DANGADE  KAHIRA SURVE	18	8	8	8	42
6	34822	KESHAV VIRENDER CHOUDHARY	16	8	8	8	40
7			15	8	8	8	39
8	34823	MARUTI BHASKAR BOORA	16	8	8	8	40
9	34824	NEHAL BALU SALVE	15	7	7	7	36
10	34825	ROHIT DILIP SALVE	16	7	7	7	37
11	34826	SUMIT GAUTAM SALVE	15	7	7	7	36
12	34827	GANESH SUBHASH SHINDE	18	8	8	8	42
13	34828	HRITIK PRADEEP SONARIKAR	18	8	9	8	43
14	34829	RUTWIK MILIND SURYAWANSHI	18	8	8	8	42
15	34830	AKASH AVINASH JAMDADE	17	9	8	8	42
16	34831	PRATIK LAXMAN ANGRE	18	9	8	8	43
17	34832	SAMIKSHA RAJAN BHOIR	18	8	8	9	43
18	34833	BHUSHAN SURESH KHADSE	18	8	9	8	43
19	34834	SUMEET VILAS GORE	19	9	9	9	46
20	34835	DIPALI AVINASH HIWARKAR	19	9	10	9	47
21	34836	RUSHIKESH FULCHAND JADHAV	18	9	8	9	44
22	34837	MANJIRI SANJAY KAMBLE	17	8	8	7	40
23	34838	SUYASH SUDAM KANGNE	19	9	10	9	47
24	34839	AKSHAY ASHOK KOLGE	18	8	8	9	43
25	34840	SNEHAL KASHINATH KURKUTE	18	9	9	8	44
26	34841	PRANALI ANIL LOHAR	18	9	9	8	44
27	34842	GAURI SANJAY MORE	18	9	8	9	44
28	34843	KRUTIKA BHALCHANDRA PATIL	18	9	9	9	45
29	34844	PRERNA PRAMOD KHANDAGALE	19	9	10	9	47
30	34845	NAMRATA BALKISHAN RAPELLI	19	9	10	9	47
31	34846	ANAND DHONDIRAM RATHOD	17	9	8	8	42
32	34847	SAGARKUMAR MOHAN RANA	19	9	10	9	47
33	34848	SHAHRUKH KHAN	18	9	9	9	45
34	34849	ADITYA SUDHAKAR SHERKHANE	18	9	9	9	45
35	34850	SHIVPRASAD SURYAKANT KULKARNI	17	8	8	7	40
36	34851	SHUBHANGINI DILIP YEOLE	19	9	10	9	47
37	34852	TEJAS RAJESH GHOTKAR	18	9	8	9	44
38	34853	EKTA ANIL TOPE	18	9	9	9	45
39	34854	AMRUTA MAHADEV GHOLVE	15	7	7	7	36
40	34855	ASHA AMAR GURWANI	18	9	9	9	45
41	34856	PRATIKSHA CHANDRAKANT EKAMALLI	15	8	8	7	38
42	34857	MANSI RAJESH MOHITE	15	6	6	6	33
43	34858	JYOTI HARIBHAU MORE	miras	8	8	7	38
44	34859	PURVAJA GAJANAN UPLEMSHWAR	18	9	8	9	44

45	34860	SANIKA SUNIL NANDE	15	8	8	7	38
46	34861	AMIT KUSHABA SHIVSHARAN	14	6	7	6	33
47	34862	SHRUTI SHRIKRISHNA BACHATE	19	9	9	8	45
48	34863	SUNNY SUNIL JANBANDHU	18	9	9	8	44
49	34864	PRACHI RAM TAKLE	18	9	9	8	44
50	34865	AJAY AVINASH BANKAR	15	8	7	7	37
51	34866	SAMRAT MOHAN BANSODE	18	9	9	9	45
52	34867	SOHEL SHAKIRHUSAIN DESHMUKH	18	8	8	8	42
53	34868	PRASHANT CHANDRAKANT	14	8	8	8	38
54	34869	NAYAN SURYAMANI RANGARI	15	8	7	7	37
55	34870	SHYAM SANJAY DAHAGANE	19	9	9	9	46



Sinngad Institute of Business As-& Computer Applicans of Authority of No. 300/310, Kusgaen of Munibai Pune Express to Lonavala-110 401 Est. F.

### **Assignment Questions**

#### SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION AND COMPUTER APPLICATION

#### Semester II 202 - Financial Management

- Q1. From the following Balance sheet of XYZ Ltd. Prepare Vertical Balance Sheet and calculate the following ratios
  - a) Current Ratio
  - b) Liquid Ratio
  - c) Absolute Liquid Ratio
  - d) Current Ratio to Fixed Assets Ratios
  - e) Debt to Equity Ratio
  - f) Proprietary Ratio
  - g) Capital Gearing Ratio
  - h) Fixed Assets Ratio

#### Balance sheet as on 31st March 2021

Liabilities	Amount (Rs)	Assets	Amount (Rs.)
Equity Share Capital	1200000	Goodwill	400000
7% Preference Share Capital	600000	Plant & Machinery	800000
General Reserve	300000	Land & Building	600000
P & L A/c	140000	Furniture	100000
Prov. For Taxation	180000	Inventories	800000
Bills Payable	130000	Bills Receivable	50000
Bank Overdraft	30000	Debtors	200000
Creditors	100000	Bank	200000
13% Debentures	500000	Investment (short term)	30000
	3180000		3180000

12. Raman Ltd. Had an annual sales of RS. 40000 units at Rs. 100 per unit. The company works for 52 weeks in the year. The cost details of the company are given below:

Particulars	Unit cost (Rs.)
Raw Material	40
Labour	20
Overheads	10
Total Cost	70
Profit per unit	30
Selling price per unit	100

- a) The company has the practice of storing raw materials for 6 weeks requirements.
- b) The wages and other expenses are paid after a lag of 4 weeks
- c) Further the debtors enjoy a credit of 8 weeks and company gets a credit of 4 weeks from suppliers
- d) The processing time is 4 weeks and finished goods inventory is maintained.

  From the above information prepare a working capital estimates allowing for a 15 contingency.

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- Q3. The cash flow streams for two alternatives investments ABC and XYZ are: Calculate
- 1) Pay Back period
- 2) Net Present Value (NPV) using 11% discount rate
- 3) Benefit cost ratio (PI) using 11% discount rate
- 4) Discounted payback period
- 5) Which would you choose and why?

Year	ABC	XYZ
0	(200000)	(210000)
1	50000	80000
2	80000	60000
3	100000	80000
4	80000	60000
5	60000	80000

- Q4. What is Financial Management and explain the objectives and scope of Financial Management.
- 25. State the components, Types and Factors affecting Working Capital.



# SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION AND COMPUTER APPLICATION

#### **Class Test**

Subject :- Financial Management (202)

Test -01

Date :- 15/6/2022

Time :- 30 Min

Class :- MBA I SEM II Marks :- 20 Marks

From the following balance sheet of Ram Ltd. as at 31<sup>st</sup> March 2020 and 31<sup>st</sup> March 2021, prepare Comparative Balance Sheet and also offer your comment thereon

Liabilities	31/3/2020	31/3/2021	Assets	31/3/2020	31/3/2021
Equity Share Capital	120000	160000	Land and Building	100000	150000
Prefere Share Capital	60000	95000	Plant & Machinery	40000	45000
Reserve & Surplus	30000	35000	Stock	60000	82000
Profit & Loss A/c	18000	20000	Debtors	40000	45000
Bank Overdraft	25000	45000	Bills Receivable	10000	30000
Creditors	25000	30000	Prepaid Expenses	6000	8000
Provision for tax	15000	22500	Cash at Bank	40000	58500
Proposed Dividend	8000	20000	Cash in Hand	5000	9000
Total	301000	427500	Total	301000	427500



# SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION AND COMPUTER APPLICATION

#### Class Test ~ $\circlearrowleft$ 2 Subject :- Financial Management (202)

Class :- MBA I SEM II Marks :- 10 Marks Date :- 30/6/2022 Time :- 30 Min

#### A proforma Cost sheet of a company is as follow

Elements of cost	Rs. Per unit	
Raw Material	80	
Direct Labour	30	
Overheads	60	
Total Cost	170	
Profit	30	
Selling Price	200	

The following particulars are available:

- 1) Raw Materials are in stock on an average for one month.
- 2) Materials are in process, on an average for half a month.
- 3) Finished goods are in stock on an average for one month.
- 4) Credit allowed by suppliers is one month. Credit allowed to debtors is two month.
- 5) Lag in payment of wages is 1 ½ weeks. Lag in payment of overheads is one month.
- 6) One fourth of the output is sold against cash. Cash on hand is to be maintained at RS. 25000
- 7) You are required to prepare a statement showing the working capital needed to finance a level of activity of 104000 units of production.
- 8) Provide 15% of net working capital for margin of safety.
- 9) You may assume that the production is carried on evenly throughout the year.
- 10) Wages and overheads accrue evenly throughout the year and assume 52 weeks in a year.



Subject: Financial Management.
Topic: Unit No. 3. / Working Capital.

Richard Ivey School of Business

The University of Western Ontario

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W12346

## BBC PVT. LTD. AND WORKING CAPITAL CHALLENGES

Nimisha Kapoor and Professor Sandeep Goel wrote this case solely to provide material for class discussion. The authors do not intend to illustrate either effective or ineffective handling of a managerial situation. The authors may have disguised certain names and other identifying information to protect confidentiality.

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Version: 2013-05-16

ABMINIST

In January 2012, Arpit Agarwal, managing director of chemical manufacturing company BBC Pvt. Ltd., was contemplating the alternatives that he could explore before the company proceeded with its plan to sign a contract with Indian Railways (IR). Agarwal had been a leading member of BBC since its beginnings in 2004. BBC now had an advance acceptance document confirming its contract with IR, yet the company was suffering from a lack of working capital due to a combination of extending liberal credit to its customers and repaying debts too quickly. Therefore, Agarwal was not sure what the company's next step should be.

#### **BBC**

BBC Pvt. Ltd. was an Indian chemical manufacturing company established in 2004. The company's registered office was in Bangalore and its manufacturing plant was in Lucknow. BBC was managed by two directors, Agarwal and Mukesh Kumar. Kumar was a science graduate and Agarwal had a degree in management.

BBC was categorized as a small-scale industry under the domain of chemical manufacturing. It produced and sold stable bleaching powder using the raw material liquid chlorine. Since both the raw material and the end product were highly toxic BBC was also classified as a hazardous industry. A license from the Government of India's Department of Industrial Policy & Promotion was required in order to store the cylinders of liquid chlorine. The company usually procured its raw material from the Sonebhadra district in Uttar Pradesh. The price of this raw material could fluctuate wildly, from as low as INR10 per tonne to as high as INR10,000 per tonne. This wide price range was based upon suppliers' capacity to store and sell liquid chlorine within the limitations of licensed quantities. Any raw material exceeding these licensed quantities had to be sold at lower a price.

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According to the Environment (Protection) Act, 1986 any industry handling or dealing with hazardous substance which may cause adverse effects on the health of the people and the environment may be put under the category of hazardous industry. Thus, industries relating to the products of chemicals petroleum fertilizer, leather highly inflammable liquid gases etc. can be classified as hazardous industries. The Environment (Protection) Act, 1986, Ministry of Environment and Forests, www.envfor.nic.in/legis/env/eprotect\_act\_1986.pdf, accessed November 15, 2012.

Stable bleaching powder could be manufactured through one of two techniques: absorption or absorption. The product manufactured by the absorption technique was of better quality than the product manufactured by the adsorption technique. BBC used adsorption, which meant that its product was of an inferior quality compared to the products of its competitors. The company's main competitors were industry giants like the Aditya Birla Group, the DCM Group, Grasim Industries Limited, etc.; however, these companies were also BBC's suppliers of liquid chlorine.

Because of the more affordable (but lower quality) adsorption technique used in production, BBC was able to reduce its operating costs with respect to installation of equipment, maintenance and electricity expenditure. Despite producing a bleaching powder of inferior quality, the use of adsorption allowed the company to enjoy a favourable market share due to the cost advantage BBC was able to pass on to its customers.

BBC's customers could be divided into two broad categories: government accounts and private accounts. The government placed orders whenever there was a demand in any of its departments. Private contracts were negotiated according to industry factors such as the reputation/standing of the involved party, past dealings, size of the order, etc. Orders from private customers were usually smaller than government orders and the BBC's customer base was largely comprised of private accounts.

The company enjoyed a credible position with its bankers. Its main bank was Union Bank of India, a nationalized bank. BBC had a cash credit limit of INR2.5 million, which had been fully utilized. During a meeting with the bank manager regarding the IR contract, Agarwal could sense the manager's reluctance to extend a fresh line of credit to BBC. The bank manager mentioned that the interest on the loan required to complete the contract with IR would be 14.5 per cent; the offer was against a pledge of share certificates for an existing loan with the bank, in light of the fact that BBC was carrying existing unsecured loans that resulted in interest payments of more than INR600,000 annually.

#### **WORKING CAPITAL MANAGEMENT**

BBC had been following a conservative approach to working capital, as reflected in its high level of net working capital — more than INR4.2 million in fiscal year 2010/11 (see Exhibit 1).

The net working capital of the company had always remained positive, as reflected in its balance sheet (see Exhibit 1). BBC's assets were more than 10 times its liabilities. These assets were mostly in the form of inventories and accounts receivable. However, trade credit of the firm had become a major liability. The company's management had been very conservative and traditional with respect to repaying loans before the credit period; from 2009 to 2011, BBC's liquid-asset-to-total-asset ratio ranged between 62 and 66 per cent — whereas the industry benchmark was 30 per cent.

BBC's inventory could be categorized into three groups: raw materials, finished goods and packing materials. From 2009 to 2011, inventory in all three of these categories had risen significantly, increasing the total inventory by almost 85 per cent. Raw material and packing material were valued at cost on a first-in-first-out (FIFO) basis. Finished goods were valued at cost or at net realizable value — whichever was less.

Although such high levels of inventory eliminated the possibility of disruptions in manufacturing due to a stockout, it had led to wastage of BBC's working capital. A large stock of finished product stored in the company's premises had long been a cause of concern for Agarwal (see Exhibit 2). He knew that the company's sales had gradually decreased. Immediate action was required as decreased sales would negatively affect the profitability of the company and BBC's return on capital employed in the future.

BBC's debtors had remained more or constant with minor fluctuations. The credit periods on the loans ranged from 15 days to almost two years. The largest amount due on a single account was INR4 million. Debtors/receivables turnover ratio of the company had ranged from 2.9 to 3.2 times for the last three financial years. Despite this, BBC continued to extend liberal credit to new accounts.

The company had been maintaining adequate levels of cash but these levels would not be sufficient for additional orders like the proposed contract with IR. The cash and bank balance in BBC's balance sheet was inclusive of a fixed deposit maintained with the bank. The company also indulged in future commodity trading. The profits from these activities were apparent in BBC's profit and loss statement (see Exhibit 3).

BBC had been too quick in paying back its creditors. This had affected the company's liquidity: the longer the repayment period, the lower the net present value of the payment and the higher the value to the firm. The company also maintained a cash credit limit of INR2.5 million with Union Bank of India.

#### THE CONTRACT WITH INDIAN RAILWAYS

Operations were running relatively smoothly at BBC but Agarwal knew that there was an urgent need to upgrade the company in order to make it a truly competitive market player. The IR contract could prove to be such an upgrade, and it had therefore been an aspiration of Agarwal's since 2011. He had registered his company for all three divisions of Indian Railways in the northern part of India (Northern Railways, North Eastern Railways and North Central Railways). This contract would open the gates between BBC and IR for long-term business, and could potentially act as a stepping stone for BBC to become the preferred supplier of bleaching powder for other big players in the industry as well; however, the contract would be a challenge and would require a professional team working to make BBC eligible. Agarwal desperately needed a manager who could handle the administration and official correspondence of this account efficiently, as well as monitor operations along with the floor supervisor.

As part of the contract, IR was demanding an onsite office, a warehouse and a workshop within the BBC factory premises. In addition, the document of advance acceptance clearly outlined proposed quarterly onsite inspections. These inspections would have to be conducted at the factory premises before any lot was dispatched to IR. Furthermore, establishing an onsite IR office would cost a onetime expenditure of approximately INR200,000, as well as an increase in administrative costs.

The company had to put its stock in a new warehouse as part of the proposed contract. As of January 2012, BBC did not have any warehouse that met the required safety norms. All materials, including spare parts, raw material, packaging material and finished products, were kept in a semi-covered storage area within the factory premises; this often led to losses due to deterioration in the quality of material. The approximate cost of building a new warehouse would be INR500,000.

There was also an urgent need to create a separate workshop within the factory for safety and maintenance. Since BBC's manufacturing process involved various hazardous chemicals, maintenance of the existing machinery was a crucial activity. The workshop could be used to repair rusted or worn-out machine parts that were employed in the manufacturing. Certain critical parts had to be repaired regularly. Having a separate workshop exclusively for such activities would be very helpful in daily operations of the factory. The company estimated an expenditure of approximately INR500,000 for establishing such a workshop.

Above all, BBC needed to maintain adequate cash reserves to meet all of its payments and continue its usual production activities without any interruption. The total amount required for the upgrade — INR1.2

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Page 4

million — was beginning to worry Agarwal. BBC had already reached its cash credit limit of INR2.5 million and its recoverables were blocked in the form of either inventories or receivables. In financial year 2010/11, the company had to pay more than INR640,000 in financial charges and interest. Agarwal regretted his previous decision to avoid putting BBC's money in short-term investments, which could have been a source of funding for the upgrade that the IR contract would require. Retrospectively, he realized that BBC had been shortsighted in extending liberal credit to its customers and being more prompt in repaying debts than business demanded.

#### THE WAY FORWARD

BBC was able to attain many orders and manufacture its product at a cost much lower than its competitors; this fact reassured Agarwal, although he knew that there were issues that needed immediate action. Agarwal was aware that BBC's gross block was continuously decreasing and the company was therefore shrinking — rather than growing — at a rapid rate.

Agarwal knew that in order to complete the contract with IR, BBC would require a significant upgrade by December 2012. How could the finances required for this upgrade be secured? Should Agarwal seek to improve BBC's working capital management or pursue complete financial policy restructuring?

Nimisha Kapoor and Professor Sandeep Goel are from MDI, Gurgaon, India.



Exhibit 3

BBC PROFIT AND LOSS STATEMENT — 2009-2011

	2011	2010	2009
Income			
Sales	9,544,409	8,529,838	12,539,108
Other income	602,873	176,603	250,296
Increase/ Decrease in Stock	-134,040	335,549	-133,827
Total	10,013,242	9,041,991	1,265,577
Expenditure			h.
Raw Material Consumed	4,982,486	3,412,916	5,340,943
Manufacturing Expenses	3,434,866	3,699,344	4,765,355
Directors Remuneration	360,000	432,000	360,000
Other Expenses	223,791	451,052	935,404
Depreciation	270,798	324,757	355,292
Interest & Finance Charges	641,252	628,315	674,905
Total	9,913,194	8,948,385	12,431,899
Profit Before Tax	100,048	93,605	223,676
Profit After Tax			
Add: Transfer from previous year Balance Sheet	370,841	307,736	163,044
Provision for Income Tax	30,900	30,500	57,000
Balance carried to Balance Sheet	439,990	370,841	307,736

Source: BBC Pvt. annual reports, 2009-2011.





Exhibit 1

BBC BALANCE SHEET — 2009-2011

	2011	2010	2009
Sources of funds			
Shareholders funds			
Share capital	950,000	950,000	950,000
Reserve & surplus	439,990	370,841	307,736
Loan Fund			
Secured Ioan	180,345	1,284,237	1,237,475
Unsecured loan	5,018,221	4,603,476	4,223,011
Total	6,588,557	7,208,556	6,718,222
Application of Funds			
Fixed assets			
Gross Block	2,621,861	2,944,618	3,103,368
Less: Depreciation	270,798	324,757	355,292
Net Block	2,351,064	2,619,861	2,748,076
Assets, Loans & Advances			
Inventories	870,146	740,749	322,848
Sundry debtors	2,948,850	2,936,732	3,355,773
Cash & Bank Balance	453,079	815,640	554,800
Loans & Advances	252,199	356,636	272,211
Total	4,524,274	4,849,757	4,505,632
Less: Liabilities			
Liabilities	130,166	135,348	363,486
Provisions	156,615	125,715	172,000
Total	286,781	261,063	535,486
Net Assets	4,237,493	4,588,694	4,047,146
Total	6.588.557	7,208,556	6,718,222

Source: BBC Pvt. annual reports, 2009-2011.

Exhibit 2

VALUATION OF INVENTORIES — 2009-2011

	2011	2010	2009
Inventories	870,146.2	740,749	322,848
Raw Materials	432,071	166,573	149,924
Packing Material	85,915.2	87,976	5,624
Finished Goods	352,160	486,200	167,300

Source: BBC Pvt. annual reports, 2009-2011.



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## CASE STUDY - BBC PVT. LTD

#### Case Overview:

This case of working capital challenges of BBC Pvt. Ltd. , a small scale industry producer and seller of bleaching powder. This case intended to teach first year students the concept and importance of the working capital management in the business for survival as well as for long term growth.

BBC has followed the traditional approach to working capital Management. Its current Assets are more than current liabilities. The company repays debt before the crdit period but liberal credit policy for debtors. It extends credit sales for large periods and its large inventory in the form of raw material and finished goods. As result of this excessive blockage of working capital.

In 2012 the company bid on a contract with Indian railway. For that company need to do up gradation immediately. For Improvement Company require more fund for an investment. Mr. Agarwal needs to make decision about how to secure adequate funds for the upgrade that BBC needs in order to fulfill its promising contract.

The case stress importance of working capital Management in a business for its short term survival and long term growth. This case used to develop insight with respect to working capital management.

#### Learning Objective

To make the student understand basic concept of working capital and importance of Working capital, various component of working capital, various sources of working capital finance.

#### **Pedagogy**

The Objectives of this case would be achieved by means of lectures and classroom discussions of case study. Case materials and other course related articles are given well in advance. Before conducting case study in the classroom theory part will be covered so that student can understand the various concepts related to the case Study. PowerPoint present will be to make better understanding of the problems and conditions given in the case.

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#### Case Objectives:

- 1. To understand concept and importance of working capital.
- 2. To understand component of the working capital
- 3. To study various Sources of working capital finance to achieve organization objective
- 4. To study various strategies for effective receivables management, payables management, cash management and inventory management.

#### Following Points discussed in the before conducting the case:

- 1. Meaning and definition of working capital
- 2. Importance of working capital.
- 3. Components of working capital
- 4. Concept of optimum working capital finance
- 5. Factors affecting on working capital
- 6. Discussion on format of working on showing requirement of working capital
- 7. Sources of short term and long term working capital finance.
- 8. Strategies for effective inventory management
- 9. Strategies of effective cash management
- 10. Strategies for effective receivables management.
- 11. Strategies for effective account payables.

#### Case Facts:

- BBC Pvt Ltd . Established 2004
- Registered office in Banglore ,Manufacturing Plant Lucknow
- Directors Two

Mr. Agarwal (Management Degree)

Mr. Mukesh Kumar (Science Graduate)

Small Scale Industry - Domain of Chemical Manufacturing ,Hazardous
 Industry

Product : Bleaching powder

BBC Also indulged in Commodity Trading (Other Income)

Raw Material used for production: Liquid Chlorine

- Liquid Chlorine

- Procurement From Sonebhadra District (U.P.)
- Fluctuating Price (Low as Rs.10 Per tonne to Rs.10000 Per tonne)



- Suppliers -: Aditya Birla Group, DCM Group, Grasim Industris Ltd.
- Manufacturing Techniques for Bleaching powder
  - Absorption
  - Adsorption

Technique use by BBC - BBC use Adsorption technique which mean that the quality of product is Inferior as compare to competitors. Due to this Technique company Was able to reduce operating Cost (Installation of Equipment, Maintenance & electricity)

- Company Market share: Favorable Market Share (Because of Cost Advantage)
- Main Competitors :- Aditya Birla Group , DCM Group ,Grasim Industris Ltd. etc.
- Customers
  - Government
    - Large Orders as per demand in the department
  - Private
    - Large Customers but orders are less than Government Orders
- Bank for transaction Union BOI
- Working Capital Approach: BBC Use Conservative working capital Approach
  - In case of Conservative Approach a large investment in current assets resulting in a high liquidity level.
  - It involves using long term debt and equity to finance non-current assets and some current assets as well.
  - Firms that use this approach have a large amount of working capital and thus relatively face lower risks.
  - However, long term financing is more expensive than short term financing.
- Working Capital Position of BBC:
  - Positive working capital
  - High Level of Working Capital (Net) more than Rs.4.2 million in fiscal year 2010-11
  - High Level of Inventory
  - Eliminate possibility of stock out situation



- It had led to wastage of working capital
- Large stock of finished goods stored in the co. premises
- Debtors more or constant
- Debtors Turnover Ratio Range from 2.9 to 3.2 times (from last Three financial Years)
- The Largest amount due on a single account was Rs.4 million
- BBC extend credit to new account
- Quick repayment of creditors Lower the NPV of Payment and High
   Value of the Firm but affect on Companies liquidity
- The Cash and Bank balance Fixed deposit maintain with bank

#### • Sales position:

- Co. sales had decreased gradually
- decreased sales affect on profitability and ROCE of the company in future
- Debtors more or constant
- Credit period on the loan ranged from 15 days to 2 Year.

#### Problem In the Company:

- Debtors Turnover Ratio Range from 2.9 to 3.2 times (from last Three financial Years)
- The Largest amount due on a single account was Rs.4 million
- BBC extend credit to new account
- Quick repayment of creditors Lower the NPV of Payment and High
   Value of the Firm but affect on Companies liquidity
- Adequate Level of Cash had been maintaining but these level would not be sufficient for Proposed Contract With Indian Railway
- Mr. Agarwal had registered his company for three divisions of IR (
   North, North east, North Central).
- Contract IR demanding onsite office, warehouse and workshop within BBC factory premises
- The document of advance acceptance clearly outlined proposed quarterly onsite inspection
- Inspection should make before any lot was dispatched to IR.



- Establishing onsite expenditure Approx.Rs.200000 plus increase in admin cost.
- Company should put its stock in new warehouse (Building new warehouse cost Approx. Rs500000 and estimated expenditure for new workshop Approx. Rs.500000)
- BBC need to maintain adequate cash reserves to meet cash payment
- Total amount required for up gradation Rs.1.2 million
- Cash credit Limit Rs.2.5 Million already reached
- 2010-11 the co. had to pay more than RRs.640000 for financial charges and Interest

#### Questions for discussion:

- 1. Comment on working capital policy adopted by BBC Pvt Ltd.
- 2. Evaluate the company's cash position with focus on credit policy towards receivables and payables.
- 3. Is BBC a growing company? Which areas should be improved in the company for future growth?
- 4. Should Mr. Agarwal seek to improve BBC's working capital management or pursue complete financial policy restructuring?

#### **Analysis:**

1. A. Class discussion start with information given regarding working capital.

Working capital is the capital available for conducting the day to day operations of the business and consists of current assets and current liabilities.

BBC's current assets are mainly in the form of inventory, receivables ,cash and bank balance and loans and advances. The company's levels of current assets are very high as compare to current liabilities. The current asset as a percentage of total asset is approximately 65% but average ratio in the manufacturing sector is 30%.

It indicates the excessive working capital which is not good for the company. Excessive working capital may prove disadvantageous to the company whereas shortage of working capital is also undesirable.

BBC has positive working capital but the company has high deferral periods and shorter collection period. BBC's current assets are mainly in the form of inventory receivables which blocks the funds. Company should focus on quick sales and invest in short term deposits.

- B. Discussion on types of working capital Approach and effect of each .Focus on approach adopted of BBC and its effect on liquidity position

  Types of Working Capital Approach
  - Conservative
  - Aggressive
- C. Component of working capital given in the case.

Current Assets Components

Current Liability Component

- D. Discussion on Factors determining working capital requirement.
  - Nature and size of the business
  - Production policy
  - Demand position
  - Operating cycle
  - Credit policy
- E. Discuss the need of optimum working capital
- F. Operating risk: High
- 2. Company's cash Position analyze based on current Assets.

Management should focus on optimum cash level to meet the short term requirement. BBC's sales have been in the form of Credit. Company adopted liberal credit policy .As a result of this large amount has been involved in debtors. There is slight fluctuation in the debtors which indicate the debtors are almost constant for last three years.( refer Exhibit 1)

Huge inventory also form a part of current assets i.e. raw material and finished goods. BBC needs a sound collection policy to reduce the debtors and increase cash position. BBC needs to focus on quick sales to convert inventory into the cash.

3. Discussion on various techniques of receivables management in detail and find out suitable policy for the organization.

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- 4. BBC cannot be called the growing company. Because:
- a. Company is started shrinking
- b. Debtors collection policy shows casual approach

- c. Repayment of creditors before the credit period.
- d. Huge amount of inventory is block
- e. Blockage of working capital
- f. Blockage of funds
- g. Reduction in cash balance
- h. Reduction in gross block
- 4. Mr Agarwal needs to focus on working capital. Following are suggestion for improvement in working capital.
- a. Focus on account receivable. Offer some discount on quick payment
- b. Focus on increase in sales.
- c. Inventory should be managed by using JIT technique.
- d. The company should focus on realization of current inventory.



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### Unit -1 Business Finance

- Contents :-
- Introduction to Business Finance,
- Meaning and Definition of Financial Management,
- Objectives of Financial Management- (Profit Maximization and Wealth Maximization),
- Modern Approach to Financial Management- (Investment Decision, Financing Decision, Dividend Policy Decision),
- Finance and its relation with other disciplines,
- Functions of Finance Manager

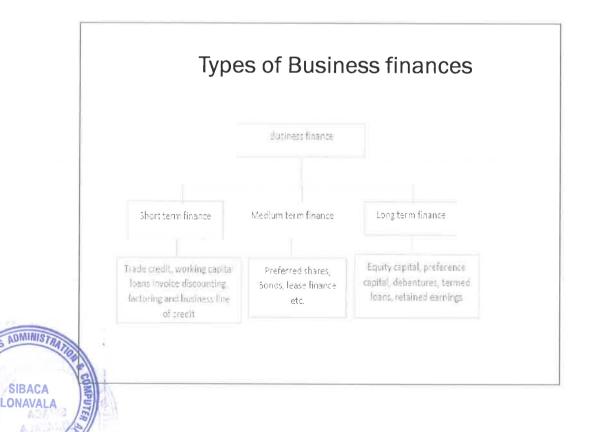
## **Business Finance**

- Finance represents the money management and the process of acquiring the funds. Finance is a board term that describes the activities related to banking, leverage or debt, credit, capital markets, money and investments.
- Business finance tells about the funds and credit employed in the business. It also helps to manage the funds/money to make your business more profitable by considering financial statements (profit and loss accounts, balance sheets and cash flow statements).



## **Business Finance**

Business finance refers to funds availed by business owners to meet their needs that may include commencing a business, obtaining top-up funds to finance business operations, obtaining finance to purchase capital assets for the business, or to deal with a sudden cash crunch faced by the business.



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### Short term finance

- Financing the business for a short period of time (less than 1 year) is short term finance. It is also called working capital financing.
- Trade credit, working capital loans, invoice discounting, factoring, and business line of credit comes under short term finance.
- Advantages of short term finance are less interest, disbursed quickly and less documentation.
- Main **Disadvantages** of short term finance are the money which we get is smaller, it has fixed period of loan, interest rates keep on increasing, effects business and its liquidity.

# Medium term finance

- This will be considered for two reasons, one when long term capital is not available and secondly, when deferred revenue expenditure write off period is three to five years.
- Financing for a period for medium term is between three to five years. Preferred shares, Bonds, lease finances, etc. comes under medium term finances.
- Medium term loans are more conservative than long term investments, but involves more risk than short term. It often looks for balance between risk and return.



# Long term finance

- It is provided for a period of more than ten years. Long term finance is also called fixed capital finance. Equity capital, preference capital, Debentures, term loans, retained earnings comes under long term finance.
- The main purpose of getting these kinds of finances is to carry out the business on an expansionary scale from which, greater economic benefits are expected to arise in future.

# Financial Management

- "Financial management is the activity concerned with planning, raising, controlling and administering of funds used in the business." – Guthman and Dougal
- "Financial management is that area of business management devoted to a judicious use of capital and a careful selection of the source of capital in order to enable a spending unit to move in the direction of reaching the goals." — J.F. Brandley
- "Financial management is the operational activity of a business that is responsible for obtaining and effectively utilizing the funds necessary for efficient operations."-Massie



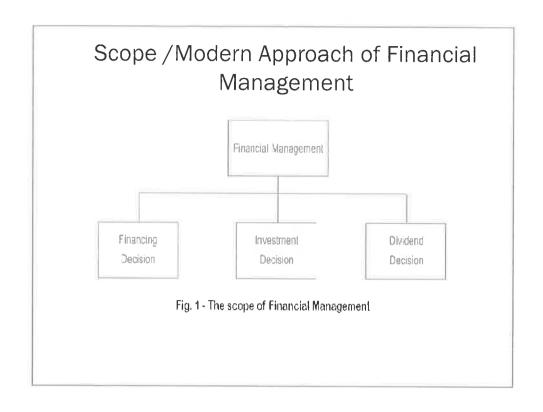
# Traditional approach

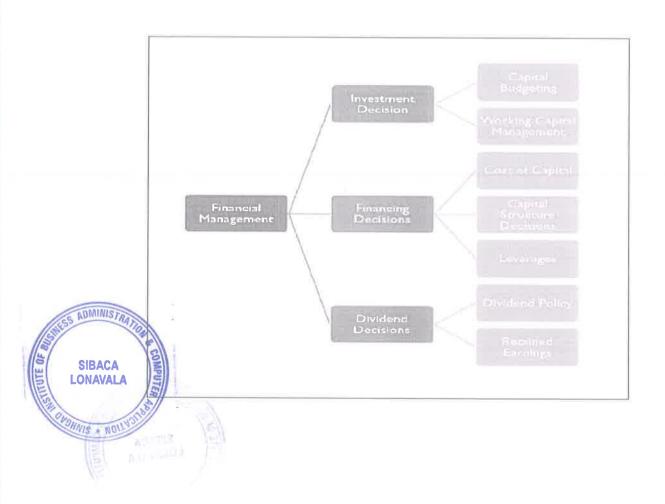
• The traditional approach to the FM is restricted to raising to funds from various sources and completion of the legal formalities required to do the same. This suggest that a finance manager should know how to raise the funds and he is not supposed to do anything more than this

# Modern Approach

- The modern approach to the FM says that there are three important functions which are expected to be performed by the Financial Management.
- 1) How much amount of funds will be required by the firm?
- 2) How to raise the amount required by the firm?
- 3) How to invest the amount raised so that the objectives of financial management as well as the firm will be achieved?







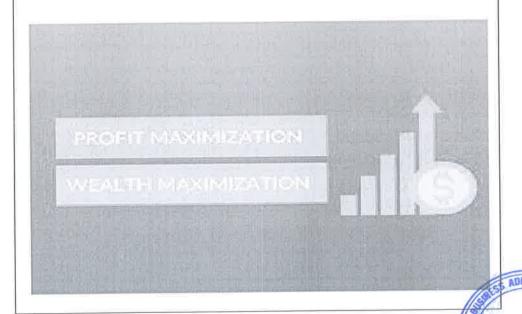
# Role of the financial manager

The financial management department of any company is handled by a financial manager.

This department has numerous functions, such as:

- Calculating the capital required
- Formation of capital structure
- Investing the capital
- Allocation of profits
- Effective management of money .
- Financial control

# Two major objectives



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### **Profit Maximisation**

• Profit maximisation is used as a standard of financing decisions. According to this approach, a firm should undertake all those activities which add to its profits and eliminate all others which reduce its profits. This objective highlights the fact that all the decisions—financing, dividend and investment, should result in profit maximisation.

# Arguments in favour of profit maximisation approach

- Profit is a yardstick of efficiency on the basis of which economic efficiency of a business can be evaluated.
- It helps in efficient allocation and utilization of the scarce means
   because resources are applied to such uses only which maximize
   the profits.
- The rate of return on capital employed is considered the best measurement of the profits.
- Profit acts as a motivator which helps the business organisation in becoming more efficient through hard work.
- By maximizing profits, social and economic welfare is also maximized.
- Every business has limited capital, therefore, its efficient use is measured in terms of maximum profits.



# Unfavourable Arguments for Profit Maximization

- It is vague
- It ignores the time value of money
- It ignores the society
- It is incomplete concept
- It is only for short term
- It emphasis on profit only
- It has a narrow scope
- It is a traditional approach
- It ignores the risk factor
- It is secondary objective

### Wealth maximization

- Wealth maximization is one of the modern approaches which try to overcome the drawbacks of profit maximization.
- In modern times, profit maximization is not considered to be an ideal criterion for making investment and financing decisions. The prime objective of a business entity is to maximize value for its owners, equity shareholders.
- Wealth maximization is almost universally accepted and appropriate goal of a firm.
- According to wealth maximization, the managers should take decisions that maximize the net present value of the shareholders or shareholders wealth.
- It means to maximize the market value of shares



# Arguments in favour of profit maximisation approach

- It is for long term
- ii. It emphasis on shareholders wealth
- iii. It considers society
- iv. It has a wider scope
- v. It is a modern approach
- vi. It considers the risk factor
- vii. It considers time value of money
- viii. It is primary objective
- It considers the effect of earnings per share, dividends paid or any other return to shareholders on the wealth of the shareholders.

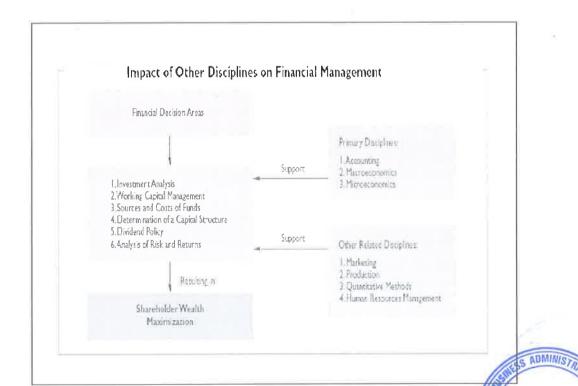
# Unfavourable Arguments for Wealth Maximization

- (i) Wealth maximization assumes that the market price of shares of a company is directly influenced by the financial decision taken by it. But in the real world situation this assumption does not hold good because company-specific factors, there are several economy specific factors as well as industry-specific factors which influences the market value of shares
- (ii) Wealth maximization is nothing, it is also profit maximization, it is the indirect name of the profit maximization.
- (iii) Wealth maximization creates ownership-management controversy.
- (iv) Management alone enjoy certain benefits.
- (v) The ultimate aim of the wealth maximization objectives is to maximize the profit.
- (vi) Wealth maximization can be activated only with the help of the profitable position of the business concern



## Financial Management & Economics

- Economic concepts like micro & macroeconomics are directly applied with the financial management approaches.
- Investment decisions, micro & macro environmental factors are closely associated with the functions of financial manager.
- Financial management also uses the economic equations like money value discount factor, economic order quantity etc.
- Financial economics is one of the emerging area, which provides immense opportunities to finance, and economical areas.



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# Financial Management & Production Management

• Production management is the operational part of the business concern, which helps to multiple the money into profit. Profit of the concern depends upon the production performance. Production performance needs finance, because production department requires raw material, machinery, wages, operating expenses etc. These expenditures are decided & estimated by the financial department & the finance manager allocates the appropriate finance to production department. The financial manager must be aware of the operational process and finance required for each process of production activities.

## Financial Management & Mathematics

- Modern approaches of the financial management applied large number of mathematical & statistical tools & techniques.
- They are also called as econometrics.
- Economic order quantity, discount factor, time value of money, present value of money, cost of capital, capital structure theories, dividend theories, ratio analysis & working capital analysis are used as mathematical & statistical tools & techniques in the field of financial management



## Financial Management & Marketing

- Produced goods are sold in the market with innovative & modern approaches. For this, the marketing department needs finance to meet their requirements.
- The financial manager or finance department is responsible to allocate the adequate finance to the marketing department.
- Hence, marketing & financial management are interrelated & depends on each other.

## Financial Management & Human Resource

- Financial management is also related with human resource department, which provides manpower to all the functional areas of the management.
- Financial manager should carefully evaluate the requirement of manpower to each department and allocate the finance to the human resource department as wages, salary, remuneration, commission, bonus, pension & other monetary benefits to the human resource department. Hence, financial management is directly related with human resource management.



# Financial Management & Accounting

- Financial Accounting It is concerned with the preparation of reports which provide information to users outside the firm. The most common reports are the financial statements included in the annual reports of stockholders and potential investors. The main objective of these-reports is to inform stockholders, creditors and other investors how assets are controlled by a firm. In the light of the financial statements and certain other information, the accountant prepares funds film statement, cash flow statement and budgets.
- Cost Accounting: It deals primarily with cost data. It is the process of classifying, recording, allocating and reporting the various costs incurred in the operation of an enterprise. It includes a detailed system of control for material, labour and overheads. Budgetary control and standard casting are integral part of cost accounting.
- Management Accounting: Functions of management accounting include all activities connected with collecting, processing, interpreting and presenting information to the management.



# Format of Vertical Balance Sheet

Particulars	Amount	Amount
) Equity and Liabilities		
) Shareholder's Funds		
a) Share Capital		
Equity Share capital	xxx	
Preference Share Capital	xxx	XXX
b) Reserves and Surplus		
General Reserves	xxx	
Capital reserves	^^^	
Profit and Loss A/c	xxx	
Securities Premium	xxx	xxx
Total Shreholder's Fund (i)		ххх
i) Non- Current Liabilities		
a) Long-Term Borrowings (Secured and Unsecured		
Bank (Term) Loan	xxx	
Debentures	xxx	XXX
b) Long-Term Provisions		xxx
Total Non- Current Liabilities (ii)		ххх
ay Current Liabilities		
Short Term Borrowing	xxx	
Creditors	xxx	
Trade Payables	xxx	
Bills Payables	xxx	
Outstanding Expenses	xxx	
Prepaid Incomes		
Proposed Dividend	XXX	
Provision for Tax	xxx	
Bank Overdraft	XXX	XXX
Total Current Liabilities(iii)		ххх
Total Equities and Liabilities (i+ii+iii)		хххх
·		
2) Assets		
i) Non- Current Assets		
a) Fixed Assets		
Tangible Assets		
Plant and Machinnery	XXX	
Furniture	XXX	
Land and Building	XXX	
Intangible Assets		
	XXX	
Goodwill	xxx	SAS ADM
Copyright		
	xxx	SMXX

Total Assets (i+ii)		XXX
Total Current Assets (ii		ххх
Outstanding incomes	xxx	
Prepaid Expenses	xxx	
Bills Receivables	xxx	
Debtors	xxx	
Short term loans and advances	xxx	
Bank	xxx	
Cash and Cash Equivalents	xxx	
Trade Receivables	xxx	
Stock/Inventories	XXX	
short term Investments	xxx	
ii) Current Assets		
Total Non- Current Assets(i		xxx
c) Long-Term Loans and Advances		ххх
b) Non- Current Investments		XXX

### **Format of Vertical Income Statement**

Partiulars	Amount	Amount
1) Revenue From Operations		xxxx
2) Add:- Other Income		xxxx
3) Total Revenue (1+2)		хххх
4) Less :- Expenses		
Cost of Material consumed	xxx	
Purchase of Inventories of Finished Goods	xxx	
Work in Progress and Stock in Trade	xxx	
Employees Benefits Expenses	xxx	
Finance Costs	xxx	
Depreciation and Amortisation Expenses	xxx	
Other Expenses	xxx	
Tota	al Expenses	хххх
5) Profit Before Tax (3-4)		хххх
6) Less :- Tax		хххх
7) Profit After Tax (5-6)		хххх



# Analysis of Financial Statements

## 1. The balance sheet

Company Ltd.

Balance Sheet as on .....

Porticulars	Amount₹	Amount ?
) Sources of Funds		
A) Owners Fund/Shareholders Fund.		
a) Share Capital		
Equity share capital	xxx	199
Preference share capital.	xxx	
b) Add: Reserves and surplus		
Profit & Loss A/c	XXX	
General reserve	XXX	
Securities Premium.	xxx	1 1-1
c) Less: Fictitious Assets	XXX	
Net Worth/Owners Fund.	(xxx)	XXX
B) Borrowed Funds		
Bank Loan	XXX	
Debentures	(xxx)	
Total Fund Available		XXX
) Application of Funds		
1) Fixed Assets	XXX	
Land and Building	XXX	
Plant and Machinery	XXX	
Furniture	XXX	
Vehicle:	XXX	xxx
2) Investment		
3) Working Capital		xxx
Current Assets		
Quick Assets		
Cash	xxx	
Bonk	XXX	



Debtors	XXX	
Bill Receivable	XXX	
Total Quick Assets		XXX
Non-Quick Assets		
Stock	XXX	
Prepaid expenses	XXX	
Advances	XXX	XXX
Total Non-quick Assets		
Total Current Assets (Quick + Non Quick Asset)		XXX
Less Current Liabilities		
Quick Liabilities		
Creditors	XXX	
Outside Expenses	XXX	
Bill Payable	XXX	XXX
Total Current Liability		
Non-Quick Liability		
Bank overdraft	XXX	XXX
Total Current Liabilities		
Working Capital (Current Assets Less Current Liabilities)		XXX
Total Funds Employed /Applied		XXX

# Income Statement:

The Profit & Loss account needs to be arranged in a vertical format which is suitable for further analysis. It is also called a vertical Income Statement. Its format is given below.

SIBACA LONAVALA

Company Ltd.

# Vertical Income Statement for the year ended

Particulars	Amount (₹)	Amount (₹)
Income		100
Sales	xxx	
(·) Sales Return	XXX	
Net Sales	754.7	XXX
Less Cost of Goods Sold	-,	244
Opening Stock	xxx	
Add: Purchases	XXX	
Add: Wages	XXX	
Add : Carriage Inward	XXX	
Add: Direct Exp.	XXX	
Less Closing Stock	XXX	XXX
Net Cost of Goods Sold	333	
Gross Profit Net Sales - Net Cost of Goods Sold)	xxx	XXX
Less: Operating Exp.	222	
o. Administrative Exp.	xxx	
b. Finance Exp.	XXX	
c. Selling Exp.	XXX	
Total Operating Expenses	AAA	
Operating Profit (Gross Profit - Operating Expenses)		XXXX
Add: Non-operating Income		XXXX
Less: Non-operating Exp.		XXX
Net Profit Before Tax		(xxxx)
Less: Tax (Charged on Net profit Before Tax)		XXX
Net Profit After Tax		XXX
The second state is a second state of the seco		XXX



M/S	co			
Income statement				
For Year ended	Rs	Rs	Rs	
Sales	143	143	143	
Gross Sales		XX		
Less: Returns (Inwards/Sales)		(XX)		
NetSales			XX	
Less: Cost Of Goods Sold				
a) Opening Stock				
Raw Material	XX			
WIP	XX			
Finished Good	XX	XX		
b) Purchase	XX			
Less: Return	(XX)	XX		
c) Direct Expenses and Fatory expenses				
Carriage Inward (Freight)	XX			
Import Duty	XX			
Handling Charges	XX			
Wages and Salaries	XX			
Power and fuel	Xx			
FactoryExpenses	XX			
Depreciation on Machinery	XX			
Depreciation on Factory Building	XX	XX		
d) Less : Closing Stock				
Raw Material	XX			
WIP	XX			
Finished Goods	XX	(XX)	=	
e) Less : Sale of Scrap		(XX)		
.'. COGS (a+b+c-d-e)		(727)	(XX)	
Gross Profit			XX	
Less : Operating Expenses			1	
a) Office and Administration Expenses:				
Staff Salaries	XX			
Rent, Rates and Taxes	XX			
Unproductive Wages	XX			
Repairs to premises	XX			
Insurance	XX			
Printing and Stationary	XX			
Office Cleaning	XX			
Postage and Telephones	XX		1	
Staff Welfare Expenses	XX			
Conveyance Charges	XX			
Misc. Expenses	XX			
Depreciation on Office Bldg. & Furniture	XX	XX		
			ADMINIS	

SIBACA LONAVALA

b) Selling Expenses :	7.	I	
Carriage Outwards	XX		
Commission Allowed	XX		
Salesman commission/ Salary	XX		
Travelling Expenses	XX		
Entertainment Expenses	XX		
Sales Promotion Expenses	XX		
Advertising	XX		
Bad Debts (Normal)	XX		
Warehouse Expenses	XX	XX	
Waterloade Expenses		AA	
c) Finance Expenses :			
Cash Discount	XX		
Bank Charges	XX		
Bank Commission	XX		
Bad Debts (Abnormal)	XX		
Foreign Exchange Loss	XX	XX	
.'. Operating Expenses (a+b+c)			(XX)
Net Operating profit before interest			XX
Less: Interest			(XX)
Operating Profit After Interest			XX
Add: Non Operating Income			
Interest Earned / received		XX	
Misc. Incomes		XX	
Profit on sale of Fixed Asset		XX	
Profit on sale of Investment		XX	
Interest on Loan given to Outsiders		XX	
Dividend on Investments (Dividend Received)		XX	
Compensation received as per Court Order		XX	XX
Less: Non Operating Expenses & Losses			
Loss on sale of Fixed Asset		XX	
Loss by Fire		XX	
Loss on sale of Investment		XX	
Penalty		XX	(XX)
Net Profit before Tax			XX
Less: Income Tax			(XX)
Net Profit after Tax			XX
Add:Last Year Balance b/f (cr)			XX
Less: Transfer to Reserves			
Tranfer to Genera Reserve/ CRR/ Capital Reserve			(XX)
Less: Preference Dividend			(XX)
Less: Proposed dividend			(XX)
Less: Interim Dividend			(XX)
.'. Retained Earnings			XX
			21/1



	eet			
Particulars	Rs	Rs	Rs	Rs
P.D A .				
Ources of Funds :				1
. Owners' Funds : (Shareholder Fund / Net Worth)				1
A). Equity Shareholder Fund :			l <sub>xx</sub>	1
i). Equity Shares Capital				1
d: B). Reserves and Surplus:		VV		1
i). Capital Reserve	1	XX		1
ii), Capital Redemption Reserve		XX		1
- iii), Share Premium		XX		1
iv). General Reserve		XX		1
v). Profit & Loss A/C Cr. Balance		XX		
vi). Sinking Fund / Other Funds		XX		1
Total Reserves and Surplus	-		XX	
ss :C). Losses & Fictitious Assets				1
i). Profit & Loss A/C Dr. Balance	- 1	(XX)		l
ii). Misc. Expenditure not written off				
Preliminary Expenses	XX			
Less: Written Off	(XX)	XX		1
Share issue Expenses		XX		
Discount on issue of Shares & Debentures		XX		1
Deferred Revenue Expenditure		XX		1
Total Losses & Fictitious Assets			XX	
Total Owners' Funds				XX
				1
. Borrowed Funds :	_			1
A). Secured Loans :				1
i). Debentures or Bonds		XX		1
ii). Loans from Banks	1	XX		1
iii). Loans from other Financial Institutions		XX		1
Total Secured Loans			XX	1
B). Unsecured Loans :	_			
i). Public Deposits (Fixed Deposits from Public)		XX		1
ii) Other Loans		XX		
otal Unsecured Loans			XX	
otal Borrowed Funds				XX
otal Funds Available / Capital Employed				XX
. Maria di Santa				
Application of Funds :				
Net Fixed Assets:				
A). Tangible:				
i). Land and Building (Cost)	XX			
Less: Depreciation	(XX)	XX		
ii). Leaseholds (Cost)	XX			
Less: Depreciation	(XX)	XX		
iii). Plant & Machinery (Cost)	XX			
<u>Less</u> : Depreciation	(XX)	XX		
	XX			
iv). Furniture & Fittings (Cost)	0.00	XX		
	(XX)	1 1		
iv). Furniture & Fittings (Cost)	XX			
iv). Furniture & Fittings (Cost) <u>Less</u> : Depreciation		xx		
iv). Furniture & Fittings (Cost)  Less: Depreciation  v). Vehicles (Cost)  Less: Depreciation	XX	XX	xx	
iv). Furniture & Fittings (Cost)  Less: Depreciation  v). Vehicles (Cost)	XX	XX	xx	
iv). Furniture & Fittings (Cost)  Less: Depreciation  v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets	XX (XX)	XX	XX	
iv). Furniture & Fittings (Cost)  Less: Depreciation v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets  B). Intangible:	XX (XX)		XX	
iv). Furniture & Fittings (Cost)  Less: Depreciation  v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets  B). Intangible:  i). Goodwill  Less: written Off	XX (XX)	XX	XX	
iv). Furniture & Fittings (Cost)  Less: Depreciation v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets  B). Intangible: i). Goodwill  Less: written Off  ii). Patents. Trademarks & Designs	XX (XX)			
iv). Furniture & Fittings (Cost)  Less: Depreciation v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets  B). Intangible: i). Goodwill  Less: written Off ii). Patents. Trademarks & Designs  Net Intangible Assets	XX (XX)	XX	XX	
iv). Furniture & Fittings (Cost)  Less: Depreciation v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets  B). Intangible: i). Goodwill  Less: written Off ii). Patents. Trademarks & Designs  Net Intangible Assets  C). Capital Work-in-Progress:	XX (XX)	XX		. <u>/</u> /
iv). Furniture & Fittings (Cost)  Less: Depreciation  v). Vehicles (Cost)  Less: Depreciation  Net Tangible Assets  3). Intangible:  i). Goodwill  Less: written Off  ii). Patents. Trademarks & Designs  Net Intangible Assets	XX (XX)	XX	XX	
v). Furniture & Fittings (Cost)  Less: Depreciation  Net Tangible Assets  Intangible:  D. Goodwill  Less: written Off  D. Patents. Trademarks & Designs  Net Intangible Assets  Apital Work-in-Progress:	XX (XX)	XX	XX	10 to

Particulars	Rs	Rs	Rs	Rs
2 Long Tages Investments 5				
2. Long Term Investments			l <sub>xx</sub>	
i). Trade Investments			XX	
ii). Investments in Immoveable Properties				vv
iii). Investments in Capital of Partnership Firms			XX	XX
3. Working Capital				
A) Current Assets				-
Quick Assets :				
a). Cash & Bank	XX			
b). Debtors (Net)	XX			
c). Bills Receivable	XX			
d). Accrued Income	XX			
e). Short Term / Marketable Investments	XX			
Total Quick or Liquid Assets		XX		
Add: Non Quick Assets				
i). Inventory	XX			
ii). Pre-Payments (Prepaid Expenses, Advance Tax etc)	XX			
Total Non Quick Assets		XX		
Total Current Assets			XX	
B) Less: Current Liabilities				
a) Quick Liabilities				
a). Creditors	XX			
b). Bills Payable	XX			
c). Advances Received	XX			
d). Outstanding Expenses	XX			
e). Accrued Interest	XX			
f). Provision for Taxation	XX			
g). Unclaimed Dividend	XX			
h). Proposed Dividend	XX			
Total Quick Liabilities		XX		
b) Non Quick Liabilities				
Add: Bank Overdraft		XX		
Total Current Liabilities			(XX)	
Net Current Assets or Working Capital				XX
Total Assets or Total Funds Employed				



Unit-02

### SINHGAD TECHNICAL EDUCATION SOCIETY'S

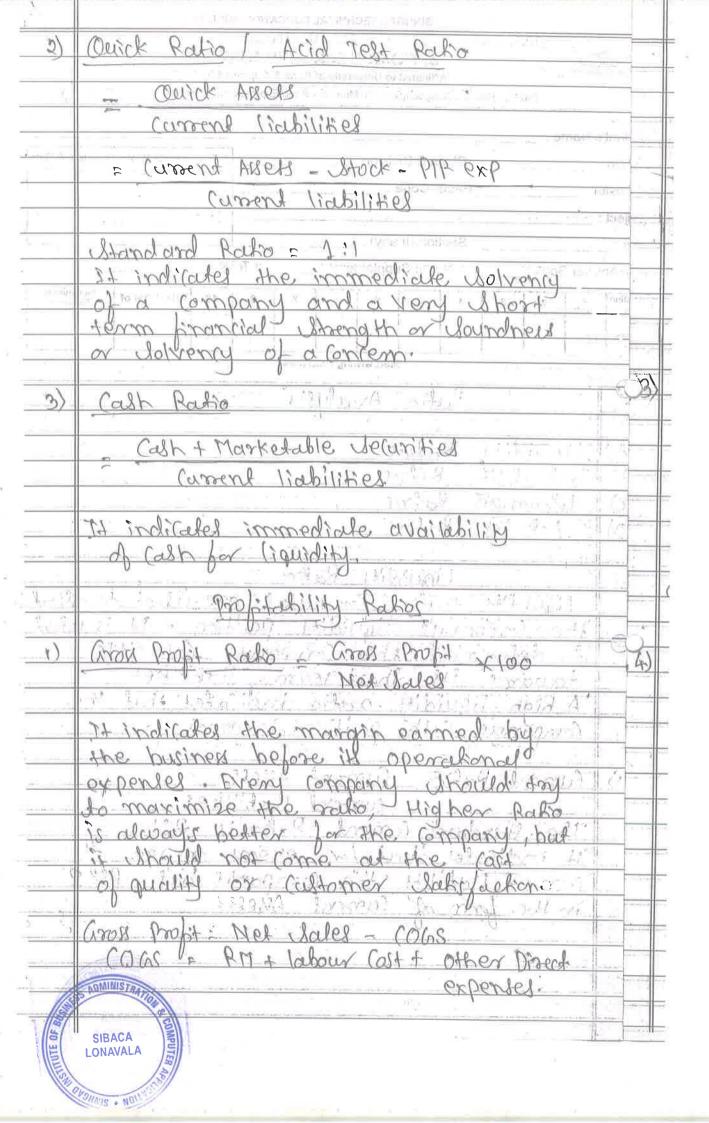


# SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION & COMPUTER APPLICATION

(Affiliated to University of Pune & Approved by AICTE)

Gat No. 309/310, Kusgaon(Bk.), Off Mumbai - Pune Expressway, Lonavala, Pune - 410 401.

Student'	s Name :
Roll No.	: Class & Division : Jr. Supervisor's Name, Signature & Dar
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Subject	er:Paper Code:
Date : _	Section (If any):
Main An	swer Book : + No. of Supplements : = Total :
Question No.	1 2 3 4 5 6 7 8 9 10 Total / Out of Signature of Examiner
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A 04	Liquidity Rako
	tiquidity rate formulal are used to assen
	the company's liquidity position . It is used
- 7	to determine the company's Capacity
4	A high liquidity matio indicates that the
	Company: Cash parition is good
	C D C C C C C C C C C C C C C C C C C C
	Carrent Ratio - Current Asset
	carrent liabilities
	The Standard Camera Raha is 2:1
	It indicates that for every super of
7	carried liability the company has PS 2
Star I	in the form of cament Asself: as administration
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	3) Not bubit Borgio = Wet bubit - x100.
_	Net Sales
4	And the second of the second o
-	Net Profit: Net Profit After Tax.
old de	Larmin all ill 112 in the
	This rule shows the overall propotability
PERU -	available for the owners at it considers
	both the operating and non operating
	incomes & expenses.
	Higher the rato, the more returns for the
300	maners - 24 is an important rate for
or La	investors & financiers.
-2/	Operating Profit Ratio , operating Profit XI
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18	according milities Not 1 100 Core 1 Main
1,000	operating profit = Net Sales - (cons + Admir structure & office exp + Selling & Dir exp + finance, exp)
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	Non Man
	operating profit = Net Profit + Her operating
4.	expenses - Non openating incomes.
-	The state of the s
4	Operative Ratio Consit Operating expense
_	Net Sale
-	
	This ratio expressed the relationship
1,	between openating Carts of net Sales.
24(1)	It is used to check the efficiency of
a Para I	the business & its profitability.
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72		
5)	Peturn on Capital Employed	8).
7 -	Return on Tovestment (ROD)	
	- Earning Before Inderest & Tax x100	
	Capital Employed	
- 6-		
	Capital Employed = Total, Avets - liabilities	
	It measured how well a company	- 1
el eku is	is able to deverale profits from	
	its apital.	
	TAMETA TOURSELL A TOURSELL AS TO THE TOURSELL AS TOURSELL AS TO THE TO	× 1
6)	Return on Net worth Petern on Juners	9)
39 21	Shireholders fund Pelin on owners	$\mathcal{A}$
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1/2	= MPAT x100 Owners fund	(0)
	To via the stay of	
- 1	It indicates whether the investment	
	done by the ishareholders are able	
er <del>en</del> M &	to generale profitable returns or not	
	It should always be higher than	- 7
	otherwise would indicate that the	)=-
	Company Junds are not will zed property.	Ŋ
	3 0	
7.)	Rehm on Equity Share Capital.	
120	THE PART OF THE PARTY OF THE PA	1)
1	MPAT-Preference Dividend	3)
	Paid up Equity Share apital.	2/
	77 ) A ( ) A	2)
_	This make indicated whether the	
	of the company are Sakyaelong	
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(8)		77
10 to	SIBACA LONAVALA	
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*	-1115		
		8)	Earning Per Whase =
			E MPAT - Pod- Dividend
			No. of Equity Shares
			It shows the Company's revenue.
			Concerning one Share. 24 & helpful
	1		to investors for decision making about
			the purchasing I sale of Sharel.
			Il EPS is high, the company's istack price will be in reased.
			byce mill pe in creased.
		97	Dividend Payout Ratio.
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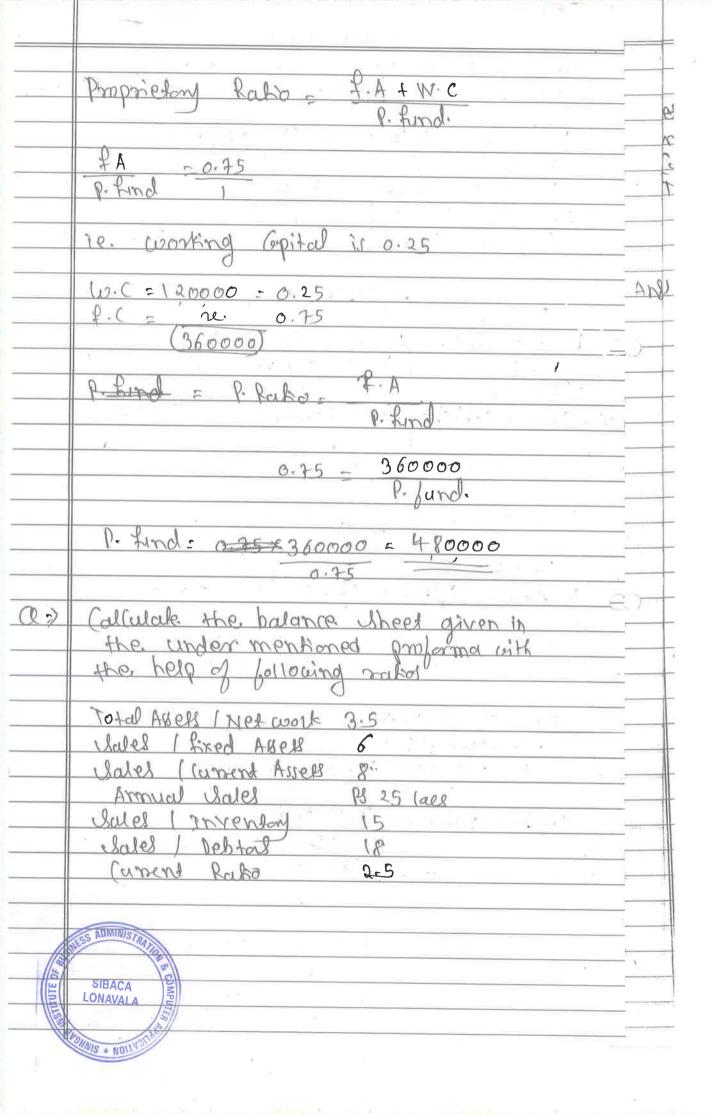
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	from the following information, prepare a Jummarized balance sheet as ad 31 March 231							
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### RATIO ANALYSIS

#### Problem 1

From the following Balance Sheet of XYZ Ltd. Calculate the following ratios.

1. Current ratio

3. Absolute Liquidity ratio

4. Current assets to Fixed assets ratio

5. Debt to equity ratio

6. Proprietary ratio

7. Capital gearing ratio

8. Fixed assets ratio

Balance Sheet as on 31st March 2019

Liabilities	Rs.	Assets	Rs.
Equity Capital	10,00,000	Goodwill(At Cost)	5,00,000
6% Pref. Capital	5,00,000	Plant & Machinery	6,00,000
General Reserve	1,00,000	Land & Building	7,00,000
Profit & Loss A/c	4,00,000	Furniture	1,00,000
Prov. For taxation	1,76,000	Inventories	6,00,000
Bills Payable	1,24,000	Bills Receivable	30,000
Bank Overdraft	20,000	Debtors	1,50,000
Creditors	80,000	Bank	2,00,000
12% Debentures	5,00,000	Investment (short-term)	20,000
	29,00,000		29,00,000

#### Problem 2

Betal Manufacturing Company submits the following Profit and Loss Account for the year ended 31st March 2019

Dr.	Profit & L	Cr	
Particulars	Rs.	Particulars	Rs.
To Opening stock To Purchases To wages To Manufacturing exp To Gross profit c/d To Selling & Dist. exp To Admin. Exp To loss by fire To loss on sale of furniture To Net Profit	52,000 1,60,000 48,000 32,000 1,04,000 3,96,000 8,000 45,600 2,400 1,600 56,000	By Sales By Closing Stock  By Gross profit b/d By profit on sale of shares	3,20,000 76,000 3,96,000 1,04,000 9,600
	1,13,600		1,13,600

#### Calculate:

- 1. Gross profit ratio
- 3. Operating profit ratio
- 2. Net profit ratio
- 4. Operating net profit ratio



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# The summarised final accounts of J Ltd. & K Ltd are as follows

### **Balance Sheet**

Liabilities	K Ltd ₹	K Ltd ₹	Assets	K Ltd ₹	K Ltd ₹	
Share Capital	88,000	88,000	Fixed Assets	1,21,000	97,000	
Reserves	42,000	35,000	Current Assets	1,25,000	1,03,000	
8% Debentures	22,000	22,000				
Current liability	94,000	55,000				
	2,46,000	2,00,000		2,46,000	2,00,000	

### Revenue Statement for the year

Particulars	J Ltd ₹	K Ltd ₹
Sales	3,40,000	2,64,000
Less: Cost of Sales	2,97,000	1,98,000
Gross Profit	43,000	66,000
Less: Operating Expenses	23,000	44,000
Net Profit Before Tax	20,000	22,000
Less: Tax	12,000	9,000
Profit After Tax	8,000	13,000
Less: Dividend	1,000	7,000
Retained Earning	7,000	6,000

You are required to calculate the following ratios and comment.

- 1. Proprietary ratio
- 2. Capital gearing ratio
- 3. Gross profit ratio
- 4. Operating ratio
- 5. Return on capital employed ratio
- 6. Return on proprietors equity ratio
- 7. Expenses ratio
- 8. Net profit ratio



Following are the Trading and Profit and Loss Account for the year ending 31st March 2011 and Balance Sheet of Jaipan Ltd as on 31st March 2011

Profit & Loss A/c

Particulars	₹	Particulars	₹			
To Opening Stock	1,25,000	By Sales	5,00,000			
To Purchases	6,10,000	By Closing Stock	3,55,000			
To Gross Profit c/d	1,20,000					
	8,55,000		8,55,000			
To Sundry Expenses	80,000	By Gross Profit b/d	1,20,000			
To Net Profit	40,000					
	1,20,000		1,20,000			

**Balance Sheet** 

Particulars		₹	Particulars	₹
Share Capital		7,00,000	Net Block	5,50,000
Reserves & Surplus	50,000		Stock	1,55,000
Add: Profit for the year	40,000	90,000	Debtors	1,80,000
Bank Overdraft		35,000	Cash	90,000
Creditors		1,50,000		
		9,75,000		
		9,75,000		9,75,000

You are required to calculate the following ratios and give your comments. Current Ratio, Ouick Ratio, Gross Profit to Sales, Stock Turnover, Debtors Turnover Ratio, net profit to paid up Capital.

Stock Turnover Paro = COUS 380000 1158 Hines

Block Turnover Paro = COUS 380000 1158 Hines

W. Stock Turnover Paro : Coused

M. Dr. A NV. BIR.



SINHGAD TECHNICAL EDUCATION SOCIETY'S



# SINHGAD INSTITUTE OF BUSINESS ADMINISTRATION & COMPUTER APPLICATION

(Affiliated to University of Pune & Approved by AICTE)

Gat No. 309/310, Kusgaon(Bk.), Off Mumbai - Pune Expressway, Lonavala, Pune - 410 401.

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- 100 mm	Nel profit: Net profit After Tax.
17 July 1	This rate shows the overall propotability
Francisco (Francisco)	both the operating and non operating
= 0	incomed & expenses.
The state of	Higher the ratio, the more returns for the
	investors & financiers.
-3>	Operating Profit Ratio , operating Profit X100
-N 5 A	operating profit & Net Sales - (cons + Admin-
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	finance (gkb)
	operating Profit = Net Profit + Han- operating
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	the business & its profitability.
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5)	Peturn on Capital Employed	8)
7	Return on Investment (ROI)	
	Earning Before Interest & Tax x 100	
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	Capital Employed = Total, ANOH - liabilities	
	It measured how well a Company	
	It measures how well a company	
-3-4	is able to deverale profits from	-
	is able to generale profits from	
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6)	Return on Net worth Petern on	9)
y - δε	Shareholders Jund I Pelin on owners	)
	fund. Petern on Proprietas fund	0
(maja	= NPAT x100	
×.	Owners Jund	10)
	It indicates whether the investment	
	done by the ishareholders are able	
-26	to denerale profitable returns or not	
	It should always be higher than	10
	the return on investment which	30
., 61	otherwise would indicate that the	J "
		y
	Company Junds are not willized properly.	-
7)	0-0-10-10-10-10-10-10-10-10-10-10-10-10-	· ·
79	Return on Equity Share Capital.	12
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	~ MPAT - Preference Dividend	-4
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	selims for the equity shoreholders	200
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	so additions are watifaltons	£1
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	8)	Earning Per Whase =
		L MPAT - Prof. Dividend
		No. of Equity Shares
	7	It shows the Company's sevenue.
C 100 100		to investors for decision making about
		the purchasing I sale of Sharel.
		price will be in readed.
6 11	9)	Dividend Payout Ratio.
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		Earning Per Share.
*\_H	(0)	Price Earning Rabo
- 1		Markel Price Per Share
		Earning per price per Share.
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- 0		le remage Ratio / Solvency Ratio
19	Ŋ	Debt Equity Radio - Long Term Debt
		Shareholders fund
	(1)	Standard = 2:1  It shows the proportion of equity & debt
44-1	2/	a Company is using to known it allets
N 1 D - H	بد	the form is not taking any sork of mainly
	MINISTRA	aling shareholders fund for financing its
	AVALA	more risky in the fullie & hence a firm.
Ton or	WALA	Should keep a Constant watch on this bako
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2)	Interest (overage Ratio	
	_ EBIT (EBDIT)	
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	The body Experies	
(2	Higher indend Covernore Russ imply	
	Higher indenest coverage Rato imply the greater ability of the firm to pay of its interest.	
STATE	pay of its interest.	
=>	interest coverage is less than I then EBDIT is insufficient its pay of interest, implying kinding other ways do arrange, funds	
	& EBDIT is insufficient to pay of	1
	interest, implying proling other ways	
	do arrange, juras	-
3)	Debt Service Coverage Rako (Brik)	-
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	- EBIT (operating Income) (EBDIT)	
	Intends + principle payment	_GB
-	pay interest & principle and (FMI)	
o Pine	pay interest & principle and (EME)	
	or all abligations related to debt in	
	a year	
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(p)	Capital Gearing Rockos.	
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	5) Proprietory Rako = Total Arres
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	- Proprietors fund Assets
	Total Assess
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11A -	of a Company which are financed by
<b>是</b>	proprietori jurd.
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	If it more than Fin means dufficient
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	Activity Rato Turrover Rakos
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	the prished whole is turned into cash.
or.	during a given accounting period.
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	Stock & Consequently whorter holding
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(B)	2) Debtors Turnover Rako. SUSS ADMINISTRA
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Carrend Assess	-		A) (
2 Stock	2 7	1)	(8)
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a) PM (104000 × 100 × 4) 80000	00	-62	R.
6) W.T.P	- <u>†</u>		D.
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RM (104000×100+ 23×100-1.) 400000	4		
D.L (104000 y 40 x 52 x504) 80000	- 4	2	De
D. OH (104000 × 80 × 52 × 50-1) 160000 64000	0		
c) finished Stock (104000x220x 4) 17,60,000	)		168
Debtors (104000 x 240 x 8) 3840000			
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(ash 25,000			2)
Total Carrend Assets 70,65,000			3)
3) Carrent liabilities			
Geditors (104,000 × 100 × 52) 800000			
Ols wages (104000x 40 x 1.5) 120000			
Total Current liabilities 9,0000.			A
Net working apital 6145000			de.
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uizenen		thit Halement of Morking Capital	1
		A) (arrent Assels	
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	2	Stock 54000 x 50 x 12	225000
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0000	-0,2	RM 54000 x 50 x 12 x 1004. 113,500	
		D.1 54000 x 20 x 75 x 50-1. 22,500	
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	c	FM 54000 × 100 × 12	4,50,000
		2 7252	438750
	7	Debtors 54000 × 130 × 12 × 750.	(00000
	3	Cash	1
0000		Total Current Assets	1382500
		TORM CAIRTO	
000		les B) Current liabilities	
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200		1) (seditors = 54000 x 50x 12	215000
		27 22 22 22 22	30000
00		2) 615 wages = 54000 x 20 x 360	- 1
100		3) Ols OHS = 54000 × 30× 12	1.35000
		Total current liabilities	390000
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### Sums on Fund Flow Statement

Problem 1:

# From the following information relating to A Ltd., prepare Funds Flow Statement:

(	Rs	. 1	00	0	,

	2003 Rs.	2004 Rs.		2003 Rs.	2004 Rs.
Share Capital	300	400	Cash	30	90
•	100	50	Accounts Receivable	105	150
Reserve Retained Earnings	30	60	Inventories	150	195
Accounts Payable	45	135	Fixed Assets	190	210
Accounts Fayable	475	645		475	645

### Additional Information:

- (a) The company issued bonus shares for Rs. 50,000 and for cash Rs. 50,000.
- (b) Depreciation written off during the year Rs. 15,000.

(B.Com. M.S.)

#### SOLUTION:

### SCHEDULE OF CHANGES IN WORKING CAPITAL

	obb or our			Vorking Capital
	2003 Rs	2004. Rs	Increase Rs.	Decrease Rs.
Current Assets:  Cash  Accounts Receivable Inventories	30,000 1,05,000 1,50,000	90,000 150,000 1,95,000	60,000 45,000 45,000	=
	2,85,000	4,35,000		
Less: Current Liabilities: Accounts Payable	45,000	1,35,000		90,000
Working Capital Increase in Working Capital	2,40,000	3,00,000		60,000
an hu an h	3,00,000	3,00,000	1,50,000	1,50,000

### FUND FLOW STATEMENT for the year ended 31-12-2004

	D		Rs.
ssue of Share	50,000	Purchase of Fixed Assets	35,000
Funds from Operation	peration 45,000 Increase in Working	Increase in Working Capital	60,000
	95,000		95,000

#### Workings:

- 1	FIX	ED	ASS	ETS	A/C
	9 /	L . L .	7 6 6 7 6 7		4 81 -

FIXED ASSETS ATC				
To Balance b/d	Rs. 1,90,000	By Adjusted P & L A/c (Depriciation)	Rs. 15,000	



To Cash (Purchase)	35,000	By Balance c/d	2,10,000
	2,25,000		2,25,000
	SHARE	CAPITAL A/C	
To Balance c/d	4,00,000	By Balance b/d By Cash By General Reserves (Bonus Shares)	Rs. 3,00,000 50,000 50,000
	4,00,000		4,00,000
	ADJUSTED PR	OFIT & LOSS A/C	
To Fixed Assets (Depreciations)	Rs  5,000	By Balance b/d	Rs 304000
To Balance e d	60,000	By Fund from Operation	45,000
	75,000		75,000

### Problem 2:

# Ramco Cements presents the following information and you are required to calculate funds from operations:

PROFIT AND LOSS ACCOUNT

	Rs.		Rs.
To Operation Expenses	1,00,000	By Gross Profit	2,00,000
To Depreciation	40,000	By Gain on Sale of Plant	20,000
To Loss on Sale of Building	10,000		20,000
To Advertisement Suspense Account	5,000		
To Discount Allowed	500		
To Discount on Issue of Shares			
written off	500		
To Goodwill written off	12,000		
To Net Profit	52,000		
	2,20,000		2,20,000



#### **SOLUTION:**

#### CALCULATION OF FUND FROM OPERATIONS

	Rs.	Rs
Net Profit (given)		52,000
Add: Non-fund or non-operating		
items which have been debited to		
Profit & Loss A/c:		
Depreciation	40,000	1
Loss on Sale of Building	10,000	1
Advertisement written off	5,000	
Discount written off	500	1
Goodwill written off	12,000	67,500
		1,19,500
less: Non-fund or non-operating		
items which have been credited to		
Profit & Loss A/c:		
Gain on Sale of Plant	20,000	20,000
FUNDS FROM OPERATIONS		99,500

### Alternatively:

### ADJUSTED PROFIT AND LOSS ACCOUNT

	Rs.		Rs.
To Depreciation	40,000	By Opening Balance	_
To Loss on Sale of Building	10,000	By Gain on Sale of Plant	20,000
To Advertisement Suspense A/c	5,000	By Funds from Operations	99,500
•		(Balancing figure)	
To Discount written off	500		
o Goodwill written off	12,000		
To Closing Balance	52,000		
	1,19,500		1,19,500



### Problem 3: The Balance Sheets of National Co. as on 31st December, 2003 and 31st December 2004 are as follows:

Liabilities & Capital	2003 Rs	2004 Rs.	Assels	2003 Rs	2004 Rs.
Share Capital	5,00,000	7,00,000	Land and Buildings	80,000	1,20,000
Profit & Loss	1,00,000	1,60,000	Plant and Machinery	5.00,000	8,00,000
General Reserve	50,000	70,000	Stock	1,00,000	
Sundry Creditors	1,53,000	1,90,000	Debtors	1,50,000	1,60,000
Bills Payable	40,000	50,000	Cash	20,000	20,000
Expenses O/S	7,000	5,000			
	8,50,000	11,75,000		8,50,000	11,75,000

### **Additional Information:**

- (1) Rs. 50,000 depreciation has been charged on Plant and Machinery during 2004.
- (2) A piece of Machinery was sold for Rs. 8,000 during the year 2004. It had cost Rs. 12,000; depreciation of Rs. 7,000 had been provided on it.

Prepare a Schedule of changes in Working Capital and a Statement showing the Sources and Application of Funds for 2004.



### SOLUTION:

### SCHEDULE OF CHANGES IN WORKING CAPITAL

			Changes in V	Changes in Working Capital		
Items	2003 Rs.	2004 Rs	Increase Dr. Rs.	Decrease Cr Rs.		
Current Assets : Stock Debtors Cash	1,00,000 1,50,000 20,000	75,000 1,60,000 20,000	10,000	25,000		
Current Liabilities: Sundry Creditors Bills Payable Expenses O/S	2,70,000 1,53,000 40,000 7,000	2,55,000 1,90,000 50,000 5,000	2,000	37,000 10,000		
Working Capital Net Decrease in Working Capital	2,00,000	2,45,000 10,000 60,000	60,000			
HOIKING CAPITAL	70,000	70,000	72,000	72,000		

## STATEMENT OF SOURCE AND APPLICATION OF FUNDS for the year ended 31st December 2000

Sources	Rs.	Applications	Rs
Funds from Operations (1)	1,27,000	Purchase of Land and Buildings	40,000
Issue of Shares	2,00,000	Purchase of Plant and Machinery (2)	3,55,000
Sale proceeds of Machinery	8,000		
Decrease in Working Capital	60,000		
	3,95,000		3,95,000

### Workings :

### (1) ADJUSTED PROFIT AND LOSS ACCOUNT

	Rs.		Rs.
To Plant & Machinery A/c (Depreciation of 2000)	50,000	By Balance b/d (Opening Balance)	1,00,000
To General Reserve (Transferred during 2000)	20,000	By Plant & Machinery (Profit on Sale)	3,000
To Balance c/d	1,60,000	By Funds from Operation (Balancing figure)	1,27,000
	2,30,000		2,30,000



### (2) PLANT AND MACHINERY ACCOUNT

To Balance b/d To Profit & Loss A/c (profit on sale) To Bank A/c (Purchase of Machinery & Plant (Balancing figure)	Rs. 5,00,000 3,000 3,55,000	By Bank (Sale of Machinery) By Profit & Loss A/c (Depreciation) By Balance c/d	Rs 8,000 50,000 8,00,000
(Danatonie rigera)	8,58,000		8,58,000



### Problem 4:

### From the following Balance Sheets of X Ltd. make out:

(i) Statement of Changes in Working Capital (ii) Fund Flow Statement:

#### **BALANCE SHEETS**

Liabilities	2003 Rs.	2004 Rs.	Assets	2003 Rs.	2004 Rs.
Equity Share Capital	3,00,000	4,00,000	Goodwill	1,15,000	90,000
Redeemable Preference	1.50,000	000,000,1	Land & Buildings	2,00,000	1,70,000
Share Capital					
General Reserve	40,000	70,000	Plant	80,000	2,00,000
Profit & Loss	30,000	48,000	Debtors	1,60,000	2,00,000
Proposed Dividend	42,000	50,000	Stock	77,000	1,09,000
Creditors	55,000	83,000	Bills Receivable	20,000	30,000
Bills Payable	20,000	16,000	Cash in hand	15,000	10,000
Provision for Taxation	40,000	50,000	Cash at Bank	10,000	8,000
	6,77,000	8,17,000		6,77,000	8,17,000
		1		1	

### Additional Information:

- (1) Depreciation of Rs. 10,000 and Rs. 20,000 have been charged on Plant and Land and Buildings respectively in 2004.
- (2) A dividend of Rs. 20,000 has been paid in 2004.
- (3) Income-tax of Rs. 35,000 has been paid during 2004.

(B.Com. Hons. Delhi)

#### SOLUTION:

### STATEMENT OF CHANGES IN WORKING CAPITAL

			Changes in Working Capita	
	2003 Rs	2004 Rs	Increase Dr. Rs.	Decrease Cr. Rs.
Current Assets:	77,51	110	1	
Debtors	1,60,000	2,00,000	40,000	Seattle.
	77,000	1,09,000	32,000	-
Stock		- Alconomic Transfer	A 100 TA 100 TA 100	
Bills Receivable	20,000	30,000	10,000	
Cash in hand	15,000	10,000		5,000
Cash at Bank	10,000	8,000	_	2,000
	2,82,000	3,57,000		



Current Liabilities :	Yé-	T 3	f	î
Creditors	55,000	83,000		28,000
Bills Payable	20,000	16,000	4,000	20.000
-	75,000	99,000	1,000	
Working Capital Increase in	2,07,000	2,58,000		
Working Capital	51,000			51,000
	2,58,000	2,58,000	86,000	86,000
	FUND FLOW	STATEMENT		
Sources of Fund	Rs.	Application	of Fund	Rs
Fund from Operation (c) Issue of Equity Shares	1,76,000	Purchase of Pl Redemption of Shares		1,30,000 50,000
Sale of Land and Buildings (b)	10,000			20,000 35,000 51,000
	2,86,000			2,86,000
Workings:				1
	(a) PLANT	ACCOUNT		
	Rs.			Rs
To Balance b/d To Bank (Purchase of Plant) (Balancing figure)	80,000 1,30,000	By Profit & Lo (Depreciation By Balance c/o	on)	10,000
	2,10,000			2,10,000
(b) LA	ND AND BU	ILDING ACCO	UNT	
	Rs.			Rs.
To Balance b/d	2,00,000	By Profit & Lo (Depreciati By Bank (Sale Buildings) By Balance c/d	on) of Land &	20,000 10,000 1,70,000
	2,00,000			2,00,000
(c) ADJUST	TED PROFIT	AND LOSS AC	COUNT	
	Rs.			Rs.
To General Reserve	30,000	By Balance b/d		30,000
To Dividend (d)	28,000	By Funds from	Operations	1,76,000
To Provision for Taxation(e) To Goodwill	45,000			
To Depreciation :	25,000			
Plant	10,000			
Land	20,000			
To Balance c/d	48,000			
	2,06,000			2,06,000



### (d) PROPOSED DIVIDEND ACCOUNT

To Bank A/c To Balance e/d	Rs. 20,000 50,000	By Balance b/d By Profit & Loss A/c (Balancing figure)	Rs. 42,000 28,000
	70,000		70,000
(e)	PROVISION FOR	TAXATION ACCOUNT	Rs
To Bank A/c To Balance c/d	35,000 50,000	By Balance b/d By Profit & Loss A/c	40,000
		(Balancing figure)	45,000
	85,000		85,000

# Problem 5 The following are the summarised Balance Sheets of a company as on 31st December 2003 and 2004:

Liahilities	31-12-2003	31-12-2004
	Rs.	Rs.
Equity Share Capital	2,00,000	2,40,000
8% Debentures	50,000	_
Securities Premium		10,000
General Reserve	30,000	50,000
Profit & Loss Account	48,000	68,000
Sundry Creditors	1,30,000	1,50,000
Proposed Dividend	20,000	24,000
Provision for Depreciation:		
Plant & Machinery	1,40,000	1,50,000
Furniture	6,000	4,000
Assets	6,24,000	6,96,000
Land and Buildings	1,05,000	1,50,000
Plant and Machinery (at cost)	2,90,000	3,20,000
Furniture (at cost)	9,000	10,000
Inventories	1,30,000	1,05,000
Sundry Debtors	75,000	85,000
Cash	15,000	26,000
	6,24,000	6,96,000



### Additional information is as follows:

- (1) Furniture which cost Rs. 5,000, written down value Rs. 1,000 was sold during the year 2004 for Rs. 2,000.
- (2) Plant and Machinery which cost Rs. 20,000 and in respect of which Rs. 13,000 had been written off as depreciation was sold during the year for Rs. 3,000.
- (3) The dividend of 2003 was paid during 2004.

You are required to prepare (a) a Statement of changes in working capital during 2004 and (b) Funds flow statement for the year 2004.



#### **SOLUTION:**

#### STATEMENT OF CHANGES IN WORKING CAPITAL

			Effect on W	orking Capital
	2003 Rs.	2004 Rs	Increase Rs	Decrease Rs.
	As.	7.3		7427.
Current Assets:	550000			
Cash	15,000	26,000	11.000	
Sundry Debtors	75,000	85,000	10,000	
Inventories	1,30,000	1,05,000	-	25,000
	2,20,000	2,16,000		
Current Liabilities:			=	
Sundry Creditors	1,30,000	1,50,000		20,000
	1,30,000	1,50,000		
Working Capital	90,000	66,000		
Net decrease in				
Working Capital	_	24,000	24,000	_
	90,000	90,000	45,000	45,000

### FUNDS FLOW STATEMENT for the year ended 31st December 2004

Sources	Rs.	Applications	Rs.
Issue of Share Capital	40,000	Redemption of Debentures	50,000
Securities Premium	10,000	Purchase of Land & Buildings	45,000
Sale of Furniture	2,000	Purchase of Plant and	
Sale of Plant and Machinery	3,000	Machinery	50,000
Funds from Operations	92,000	Purchase of Furniture	6,000
Net decrease in working capital	24,000	Dividend paid for	20,000
	1,71,000		1,71,000

#### Workings:

### PROVISION FOR DEPRECIATION ON PLANT & MACHINERY

To Plant & Machinery (on sold machinery) To Balance c/d	Rs. 13,000 1,50,000	By Balance b/d By Adjusted P & L A/c (Depreciation provided during the year) (Balancing figure)	Rs. 1,40,000 23,000
	1,63,000		1,63,000
PLA	NT AND MACI	HINERY ACCOUNT	
To Balance b/d To Cash (Purchase) (Balancing figure)	Rs. 2,90,000 50,000	By Cash (Sales) By Provision for Depreciation on Plant and Machinery By Adjusted P & L A/c (Loss on sale) By Balance c/d	Rs. 3,000 13,000 4,000 3,20,000
	3,40,000	by building out	3,40,000

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### PROVISION FOR DEPRECIATION ON FURNITURE A/C

To Furniture A/c	Rs 4,000	By Balance b/d	Rs 6,000
(Depreciation on furniture sold) To Balance c'd	4,000	By Adjusted P & L A/c (Balancing figure)	2,000
	000,8		8,000
	FURNITURE	E ACCOUNT	
	Rs.	Acc so w Je S	Rs.
To Balance b'd	9,000	By Cash (Sales)	2.000
To Adjusted P & L A/c	1,000	By Provisions for	4,000
(Profit on Sale) Fo Cash (Purchase)	1	depreciation	
	6,000	By Balance c/d	10,000
	16,000		16,000
ADJUST	ED PROFIT	& LOSS ACCOUNT	
	Rs.		Rs
To Transfer to General Reserve	20,000	By Balance b/d	48,000
To Proposed Dividend (2000)	24,000	By Profit on Sale of Furniture	1,000
To Provision for Depreciation:	1	By Funds from Operations	92,000
Plant & Machinery	23,000		
Furniture	2,000		
To Loss on Sale of Plant	4,000		
To Balance c d	68,000		1
	1.41.000		1,41,000



### Problem 6: Following are the comparative Balance Sheets of Good Luck Co. as at 31st December:

Liabilities	2003 Rs.	2004 Rs	Assets	2003 Rs	2004 Rs
Share Capital	10,00,000	11,00,000	Goodwill	50,000	40,000
Debentures	5,00,000	3,00,000	Land & Buildings	4,20,000	6,60,000
General Reserve	2,00,000	2,00,000	Plant and Machinery	6,00,000	8,00,000
Profit & Loss	1,10,000	1,90,000	Stock2,50,000	2,10,000	
Income Tax Provisions	40,000	1,10,000	Debtors	3,00,000	2,40,000
Creditors	50,000	40,000	Cash	3.00,000	24,000
Bills Payable	20,000	30,000	Preliminary Expenses	30,000	20,000
Provision for Doubtful Debts	000,06	24,000			
	19,50,000	19,94,000		19.50,000	19,94,000

#### Additional Information:

- (a) During the year 2004, a part of machinery costing Rs. 7,500 (Accumulated depreciation thereon being Rs. 2,500) was sold for Rs. 3,000.
- (b) Dividend for Rs. 1,00,000 was paid during the year ended 31st December 2004.
- (c) Income Tax Rs. 50,000 was paid during the year 2004.
- (d) Depreciation for the year 2004 was provided as follows:

Rs

Land and Buildings

10,000

Plant and Machinery

50,000

### You are required to prepare :

- (i) A schedule of change in Working Capital and
- (ii) A Statement showing the Sources and Application of Funds.(CA M.Com. Utkal, Poona) SOLUTION:

#### SCHEDULE OF CHANGES IN WORKING CAPITAL

		-	Changes in Working Capital		
Items	2003	2004	Increase Dr.	Decrease Cr.	
Current Assets:	Rs.	Rs.	Rs.	Rs.	
Closing Stock	2,50,000	2,10,000	<del></del>	40,000	
Debtors, less					
Provision	2,70,000	2,16,000		54,000	
Cash	3,00,000	24,000		2,76,000	
	8,20,000	4,50,000			



Current Liabilities			1 7	
Creditors	50,000	40,000	10,000	
Bills Payable	20,000	30,000	-	10,000
	70,000	70,000		
Working Capital	7,50,000	3,80,000		
Net Decrease in				
Working Capital		3,70,000	3,70,000	
	7,50,000	7,50,000	3,80,000	3,80,000
	FUNDS FLOY	V STATEMEN	r	
Sources	Rs	Applicati	ons	Rs.
Funds from Operations (3)	3,82,000	Payment o	f Dividend	1,00,000
Sale of Machinery	3,000	Payment o	f Income Tax	50,000
Issue of Share Capital	000,00,1	Purchase of Buildings	of Land and (2)	2,50,000
Decrease in Working Capital	3.70,000	Purchase Machinery	e of Plant and	2,55,000
		Redemption of Debentures		2,00,000
	8,55,000			8,55,000
Workings:				
(1) PL	ANT AND MA	CHINERY AC	COUNT	
	Rs.			Rs.
To Balance b/d	6,00,000	By Bank (	Sales)	3,000
To Bank (Purchase)	2,55,000	By Profit &	& Loss A/c	2,000
(Balancing figure)	1 1	(Loss o	on Sale)	
	1	By Profit &	& Loss A/c	50,000
	1	(Depre	ciation)	
		By Balance		8,00,000
	8,55,000			8,55,000
(2) L	AND AND BU	ILDING ACCO	DUNT	
	Rs			Rs.
To Balance b/d	4,20,000	By Profit &	& Loss A/c	10,000
To Bank (Purchase)	2,50,000	(Depre		
(Balancing figure)		By Balance	•	6,60,000
	6,70,000	_		6,70,000
(3) A	DJUSTED PRO	FIT AND LOS	SS ACCOUNT	
	Rs			Rs
To Depreciation:	1			
Machinery	50,000	By Balance	b/d	1,10,000
Land & Buildings	10,000	•	from Operations	3,82,000
To Dividends	1,00,000	w	- A 21-11-11-11	
To Income Tax Provision (4)	1,20,000			
Minis	J.			J.,



To Loss on Sale of Machinery To Goodwill Written Off To Preliminary Expenses Written Off To Balance c/d	2,000 10,000 10,000 1,90,000		
(4)	1,92,000	PROVISION ACCOUNT	4,92,000
To Bank (Payment) To Balance c/d	Rs. 50,000 1,10,000	By Balance b/d By Profit & Loss A/c (Balancing figure)	Rs 40,000 1,20,000
	1,60,000		1,60,000



### **Fund Flow Statement**

Definition: Fund Flow Statement summarises the movements of funds in the business between the two accounting periods. It provides analytical data about the procurement and utilization of funds.

### Three statements are prepared during the fund flow analysis:

- 1. Statement of Changes in Working Capital
- 2. Funds from Operations or Adjusted Profit and Loss Account
- 3. Fund flow Statement

### **Objectives of Fund Flow Statement**

Primarily the Fund Flow Statement is used to assess the cause of funds inflow and outflow. The objectives of the Fund Flow Statement is to:

- Estimate the working capital of the undertaking.
- Find out the changes and causes of changes in working capital.
- Perform a comparative study of the business's financial position.
- Know the sources of the inflow of funds.
- Learn where the funds are being used.
- Formulate the policies for the financial soundness of the firm.
- Attain financial control over the business.
- Track and control the key resource of the company.

### **How to prepare Funds Flow Statements?**

**Firstly**, we analyze the changes in working capital. The statement shows an increase/decrease in current assets and liabilities between the two years.

### **Accounting Treatment in Fund Flow Statement:**

- The net increase in working capital under the application of funds.
- A decrease in working capital under the sources of funds.



### Format of Changes in Working Capital

### Statement of Changes in Working Capital

(for the year ended )

Doublestone	Previous	Current	Working Capital Changes		
Particulars	Year	Year	Increase	Decrease	
Current Assets: Cash in Hand Cash at Bank Short-term Investment (Marketable Securities) Sundry Debtors Bills Receivable Accrued Income Prepaid Expenses Stock-in-trade Other Current Assets	(₹)	(국)	(₹)	(₹)	
(A	)			9	
Current Liabilities: Sundry Creditors Bills Payable Outstanding Expenses Income received in advance Bank Overdraft Other Current Liabilities					
(8	1				
Working Capital (A – B) ncrease/Decrease in Working Capital					

**Secondly**, we calculate the funds from operations. It depicts an increase or decrease in working capital due to operating activities.

We can calculate it by preparing:-

- 1. Statement of Funds Flow from Operations, or
- 2. Adjusted Profit and Loss Account

### **Accounting Treatment in Fund Flow Statement:**

- Funds from operations appear under sources of funds.
- Funds lost in operations appear under the application of funds.



### Format of Funds from Operations

Adjusted Profit & Loss Account

Ċr.

Particulars	Amount	Particulars	Amount
To Depreciation To Loss on Sale of Fixed Assets To Loss on Sale of Long-term Investments To Preliminary Expenses written off To Goodwill written off To Discount on Debentures written off To Provision for Taxation To Dividend/Interim Dividend To Proposed Dividend To Proposed Dividend To Transfer to General Reserve To Transfer to Sinking Fund To Balance c/d (Balance of P & L A/c at the end of the current year)	Amount (₹)	By Balance b/d (Balance of P & L A/c at the end of the pervious year) By Profit Sale of Fixed Assets By Profit on Long-term Investments By Refund of Tax By Dividend on Investment By Funds from Operations (Balancing figure)	Amount (₹)

Funds Flow from Operations (for the \_\_\_\_\_)

Particulars	Amo	unt(₹)
Net Profit after Tax for the Year		xxxxx
Add: Non-Operating Expenses		
Depreciation	×××	
Loss on Sale of Fixed Assets	ххх	
Interest on Debentures	×××	
Goodwill Written off	xxx	
Provision for Taxation	×××	
Proposed Dividend	ххх	
Dividend/Interim Dividend	×××	
Transfer from P & L A/c	×××	×××××
Less: Non-Operating Incomes		
Interest on Investments	xxx	
Dividend on Investment	×××	
Profit Sale of Fixed Assets	xxx	
Interest on Bank Deposits	×××	
Refund of Tax	×××	(xxxx)
Net Fund Flow from Operations		xxxxx



The **third or final step** in the process is making the fund flow statement. The fund's statement has two separate sections, that is:

- 1. **Sources of Funds**: It depicts the items responsible for the inflow of funds into the business.
- 2. **Application of Funds**: This section shows the outflow of funds from the business.

### Format of Fund flow Statements in the form of an account

Funds Flow Statements (for the year ended\_\_\_\_\_\_

Particulars		Amount(₹)
Sources:		
Fund from Operations		
Issue of Shares Capital		
Issue of Debentures		
Raising Long Term Loans		
Sale of Fixed Assets		
Sale of Long Term Investments		
Non-Trading Income (Dividend)		
Decrease in Working Capital		
Ţ	otal	
Application:		
Fund Lost in Operations		
Redemption of Preference Share Capital		
Redemption of Debentures		
Payment of Long-term Loan		
Purchase of Fixed Assets		
Purchase of Long-term Investments		
Payment of Dividend		
Payment of tax (if treated as appropriation of profit)		
Increase in Working Capital		
	otal	



Cr

**Adjusted Profit & Loss Account** 

To Domina dellar	(₹)		
To Depreciation To Loss on Sale of Fixed Assets To Loss on Sale of Long-term Investments To Preliminary Expenses written off To Goodwill written off To Discount on Debentures written off To Provision for Taxation To Dividend/Interim Dividend To Proposed Dividend To Transfer to General Reserve To Transfer to Sinking Fund To Balance c/d (Balance of P & L A/c at the end of the current year)		By Balance b/d (Balance of P & L A/c at the end of the pervious year) By Profit Sale of Fixed Assets By Profit on Long-term Investments By Refund of Tax By Dividend on Investment By Funds from Operations (Balancing figure)	(₹)

### Points to Remember

One must consider the following points while preparing funds flow statements:

- Always prepare the changes in working capital first.
- The funds flow statement and operations funds must be prepared simultaneously.
- Provide necessary working notes for the adjustments.



### Importance of the fund flow statements

The fund flow statements are helpful to the firm's stakeholders. As it conveys vital information about the business. The importance or uses of fund flow statements are as follows:

### Management

Fund Flow Statements helps managements in the following ways:

- 1. It helps management to determine the plan of action for the future.
- 2. The fund flow analysis enables optimum resource allocation.
- 3. After analyzing the application of funds, management can formulate its dividend policy.
- 4. The management can analyze and improve its working capital positions.
- 5. It depicts the firm's financial position, which helps get loans easily.

#### Investors

Investors can get some vital information about the firm like:-

- 1. Abilities of the firms to pay them dividend
- 2. Firms capabilities to pay their obligations
- 3. Effective sourcing and usage of the funds

#### Creditors

Fund flow statements provide the actual financial position of the business. The creditors can find out the companies' capabilities of repaying their debts. It includes the short and long term liabilities of the business.

#### Government

The government uses these statements to know the firm's capital budgeting sources. The government forms industrial policies based on the data given in this statement. Fund flow statements also help the government in capital control.

#### **Financial Institutions**

The financial institutions seek information about the firm's liquidity and profitability. They get this information by way of Fund flow statements.

#### Researchers

To assess the financial soundness of business, researchers use various financial statements. Fund flow statements help derive conclusions about the financial position of enterprises.

### **Limitations of Fund Flow Statements**

- Only provides additional information about funds. Therefore it cannot be the substitute of the financial statements.
- It uses historical data, so it is not prepared with much accuracy.
- These statements only cover changes in working capital, not the cash. However, analyzing changes in cash is a must.
- Important non-fund transactions are not included in these statements

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	Cash in Hand	5000	12000	7000	
	total Current Asself	31,000	41000		
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	Sunday Creditors	8000	5000	3000	
<del></del>	rotal current liabilities	8000	5000	-	
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	Mex Morking Capital	23000	36,000	16000	3000
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	Cash in Hand	250		4050	7300
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00		Debentures	131500	138700	7200	
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Unit-03

#### What is Working Capital?

Working capital is defined as the excess of current assets over current liabilities. It forms a part of the aggregate capital of the business. Now, a business needs working capital to fund its short term obligations. Typically, firms with an optimum level of working capital indicate efficiency in managing its operations. This further enables the firm to pay for its short-term dues and day-to-day operational expenses.

Therefore, working capital is a measure of business' liquidity position, operational efficiency, and short-term financial soundness.

Hence, working capital can be put into the following equation:

Working Capital = Current Assets - Current Liabilities

So, let's have a look at what forms current assets and current liabilities of a business in order to understand the above equation.

**Current Assets** 

Current Assets are the assets of the business that can be easily converted into cash within a year or normal operating cycle of the business, whichever is greater. These assets typically include:

- Cash and cash equivalents
- Inventory
- Accounts Receivable
- Marketable Securities
- Prepaid Expenses
- Other Liquid Assets

**Current Liabilities** 

Current Liabilities are the obligations of the business that are due within one operating cycle or a year, whichever is greater. Such liabilities are paid off by either using the current assets of the business or by creating other current liabilities.

Therefore, Current Liabilities include:

- Accounts Payable
- Notes Payable
- Current Portion of Long Term Debt
- Accrued Liabilities
- Unearned Revenues

Types of Working Capital

Depending upon the Periodicity & concept working capital can be classified as below:

- Permanent Working Capital
- Regular Working Capital
- Reserve Margin Working Capital
- Variable Working Capital
- Seasonal Variable Working Capital





- Special Variable Working Capital
- Gross Working Capital
- Net Working Capital

#### 1) Permanent Working Capital

It is that portion of the working capital that remains permanently tied up in current assets to undertake business activity uninterruptedly. In other words, permanent working capital is the least amount of current assets needed to carry out business effortlessly. Thus, it is also known as fixed working capital.

The amount of fixed working capital required by a business depends upon the size and the growth of the business. For instance, minimum cash or stock required by a firm to undertake the operational activities of the business. Now, permanent working capital can be further subdivided into two categories:

#### 2) Regular Working Capital

This is defined as the least amount of capital required by a business to fund its day-to-day operations of a business. Examples include payment of salaries and wages and overhead expenses for the processing of raw materials.

#### 3) Reserve Margin Working Capital

Apart from day-to-day activities, a business may need some amount of capital for unforeseen circumstances. Reserve Margin Working Capital is nothing but the amount of capital kept aside apart from the regular working capital. These pool of funds are kept separately for unforeseen circumstances such as strikes, natural calamities, etc

#### 4) Variable Working Capital

This can be defined as the working capital invested for a temporary period of time in the business. For this reason, it is also called as fluctuating working capital. Such a capital varies with respect to the change in the size of the business or changes in the assets of the business.

#### 5) Seasonal Variable Working Capital

This refers to the increased amount of working capital a business needs during the peak season of the year. A business may even have to borrow funds to meet its working capital needs. Such a working capital specifically meets the demands of business having a seasonal nature.

#### 6) Special Variable Working Capital

Supplementary working capital may also be required by a business to undertake exceptional operations or unforeseen circumstances. The capital required for such circumstances is termed as special variable working capital. Funds needed to finance marketing campaigns, unforeseen events like accidental fires, floods, etc.

#### 7) Gross Working Capital

This refers to the aggregate amount of funds invested in the current assets of the business. In other words, Gross Working Capital is the total of the current assets of the business. These include:

- Cash
- Accounts Receivable
- Inventory
- Marketable Securities and
- Short-Term Investments



8) Net Working Capital

Net Working Capital is the amount by which current assets exceed the current liabilities of a business.

Thus, the working capital equation is defined as the difference between current assets and current liabilities. Where current assets refer to the sum of cash, accounts receivable, raw material and finished goods inventory. Whereas, current liabilities include accounts payable.

The amount of working capital in a business is the indicator of liquidity, operational efficiency and short-term financial soundness of the business. Businesses having adequate working capital typically have the ability to invest and grow.

On the other hand, businesses having insufficient working capital have higher odds of going bankrupt. This is because of their inability to pay for their short-term obligations, thus making it difficult for them to grow.

Factors Affecting the Working Capital:

The firm must estimate its working capital very accurately because excessive working capital results in unnecessary accumulation of inventory and wastage of capital whereas shortage of working capital affects the smooth flow of operating cycle and business fails to meet its commitment. So finance manager must estimate right amount of working capital. The finance manager must keep in mind following factors before estimating the amount of working capital.

#### 1. Length of Operating Cycle:

The amount of working capital directly depends upon the length of operating cycle. Operating cycle refers to the time period involved in production. It starts right from acquisition of raw material and ends till payment is received after sale. The working capital is very important for the smooth flow of operating cycle. If operating cycle is long then more working capital is required whereas for companies having short operating cycle, the working capital requirement is less.

#### 2. Nature of Business:

The type of business, firm is involved in, is the next consideration while deciding the working capital. In case of trading concern or retail shop the requirement of working capital is less because length of operating cycle is small.

The wholesalers as compared to retail shop require more working capital as they have to maintain large stock and generally sell goods on credit which increases the length of operating cycle. The manufacturing company requires huge amount of working capital because they have to convert raw material into finished goods, sell on credit, maintain the inventory of raw material as well as finished goods.

#### 3. Scale of Operation:

The firms operating at large scale need to maintain more inventory, debtors, etc. So they generally require large working capital whereas firms operating at small scale require less working capital.

#### 4. Business Cycle Fluctuation

During boom period the market is flourishing so more demand, more production, more stock, and more debtors which mean more amount of working capital is required. Whereas during depression period low demand less inventories to be maintained, less debtors, so less working capital will be required.

#### 5. Seasonal Factors:

The working capital requirement is constant for the companies which are selling goods throughout the season whereas the companies which are selling seasonal goods require huge amount during season as more demand, more stock has to be maintained and fast supply is needed whereas during off season or slack season demand is very low so less working capital is needed.

#### 6. Technology and Production Cycle:

If a company is using labour intensive technique of production then more working capital is required because company needs to maintain enough cash flow for making payments to labour whereas if company is using machine-intensive technique of production then less working capital is required because investment in machinery is fixed capital requirement and there will be less operative expenses. In case of production cycle, if production cycle is long then more working capital will be required because it will take long time for converting raw material into finished goods whereas when production cycle is small lesser funds are tied up in inventory and raw materials so less working capital is required.

#### 7. Credit Allowed:

Credit policy refers to average period for collection of sale proceeds. It depends on number of factors such as creditworthiness, of clients, industry norms etc. If company is following liberal credit policy then it will require more working capital whereas if company is following strict or short term credit policy, then it can manage with less working capital also.

#### 8. Credit Avail:

Another factor related to credit policy is how much and for how long period company is getting credit from its suppliers. If suppliers of raw materials are giving long term credit then company can manage with less amount of working capital whereas if suppliers are giving only short period credit then company will require more working capital to make payments to creditors.

#### 9. Operating Efficiency:

The firm having high degree of operating efficiency requires less amount of working capital as compared to firm having low degree of efficiency which requires more working capital. Firms with high degree of efficiency have low wastage and can manage with low level of inventory also and during operating cycle also these firms bear less expense so they can manage with less working capital also.



#### 10. Availability of Raw Materials:

If raw materials are easily available and there is ready supply of raw materials and inputs then firms can manage with less amount of working capital also as they need not maintain any stock of raw materials or they can manage with very less stock. Whereas if the supply of raw materials is not smooth then firms need to maintain large inventory to carry on operating cycle smoothly. So they require more working capital.

#### 11. Level of Competition:

If the market is competitive then company will have to adopt liberal credit policy and to supply goods on time. Higher inventories have to be maintained so more working capital is required. A business with less competition or with monopoly position will require less working capital as it can dictate terms according to its own requirements.

#### 12. Inflation:

If there is increase or rise in price then the price of raw materials and cost of labour will rise, it will result in an increase in working capital requirement. But if company is able to increase the price of its own goods as well, then there will be less problem of working capital. The effect of rise in price on working capital will be different for different businessmen.

#### 13. Growth Prospects:

Firms planning to expand their activities will require more amount of working capital as for expansion they need to increase scale of production which means more raw materials, more inputs etc. so more working capital also.

#### What is Significance of Working Capital?

Working capital is the life blood and nerve center of a company. Just as movement of blood is necessary in the human body for marinating existence, working capital is very necessary to uphold the horizontal running of a company. No business can run productively without a sufficient amount of working capital. The main compensation of maintaining ample amount of working capital is as under:

- 1. Solvency of the company: Sufficient working capital helps in maintaining solvency of the company by providing continuous flow of manufacture.
- 2. For Goodwill of business: Sufficient working capital enables a business concern to make punctual payments and hence helps in creating and maintaining goodwill.
- 3. Easy availability of loans: A business having sufficient working capital, high solvency and good credit standing can assemble loans from banks and other on easy and positive terms.
- 4. To avail cash discounts: Enough working capital also enables a concern to avail cash discounts on the purchases and hence it reduces costs.

5. **Normal supply of raw materials**: Enough working capital ensures usual supply of materials and regular production.

working capital can make usual payment of salaries, wages and other day-to-day

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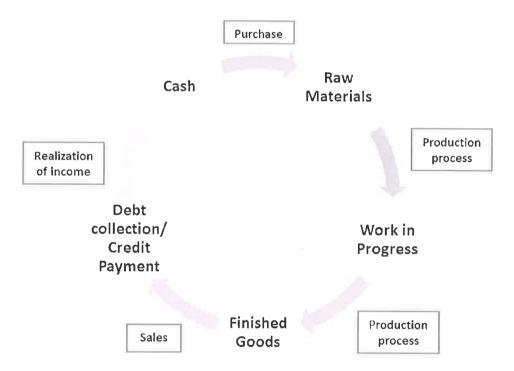
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commitments which raises the confidence of its employees, increases their competence, reduces wastages and costs and enhances manufacture and profits.

- 7. Utilization of favorable market situation: Only concern with sufficient working capital can exploit positive market conditions such as purchasing its necessities in bulk when the prices are lesser and by holding its inventories for upper prices.
- 8. Capability to face crisis: Sufficient working capital enables a concern to face company crisis in emergency periods such as gloominess because during such periods, usually, there is much pressure on working capital.

#### **Operating Cycle**

The operating cycle is the average period of time required for a business to make an initial outlay of cash to produce goods, sell the goods, and receive cash from customers in exchange for the goods



#### **Operating Cycle of a Business**

A company's operating cycle usually consists of three primary actions; purchasing resources, producing the product, and selling the product. These actions create funds flows that are both unsynchronized since cash disbursements typically take place before cash proceeds. Example: Payments for store purchases takes place before the collection of receivables. They are unsure because prospect sales and costs, which produce the particular receipts and disbursements, cannot be forecasted with total exactness. If the firm is to uphold a cash balance to pay the bills as they come outstanding. In addition, the corporation must invest in inventories to fill customer orders punctually. And, finally, the company invests in accounts

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Receivables alteration period The inventory conversion period is the extent of time required to manufacture and sell the product.

It is defined as under: Standard inventory Inventory change period =Cost of sales/365. The payables delay period is the length of time the firm is able to reschedule payment on its various resource purchases.

Equation is used to calculate the payables delay period:

Accounts due + Salaries, benefits, and Payroll taxes due Payables delay period = (Cost of sales + Selling, general and executive expense) /365 Finally, the cash exchange cycle represents the net time gap between the collections of cash proceeds from product sales and the cash payments for the company's different resource purchases.

It is calculated as follows: Cash conversion cycle = Operating cycle - Payable delay period

#### • Cash Cost Approach:

Depreciation is a non-cash expense & there are no funds locked up in depreciation as such, therefore it is ignored. Depreciation is neither included in valuation of work-in-progress nor in finished goods. Working capital **ignoring depreciation** is known as Cash Cost Approach of estimating working capital.

#### Total Cost Approach:

Some companies may like to add depreciation as a current liability for working capital estimation. The working capital calculated by considering depreciation is known as Total Cost Approach of estimating working capital.

#### Sources of Working Capital Finance

- 1. Loans from Commercial Banks:
- 2. Public Deposits:
- 3. Trade Credit:
- 4. Factoring:
- 5. Discounting Bills of Exchange:
- 6. Bank Overdraft and Cash Credit
- 7. Advances from Customers
- 8. Accrual Accounts



#### Format of Working capital

## 1. TRADING CONCERN STATEMENT OF WORKING CAPITAL REQUIREMENTS Amount (Rs.) **Current Assets** (i) Cash (ii) Receivables (For ..... Month's Sales)----(iii) Stocks ( For ..... Month's Sales)-----(iv)Advance Payments if any Less: Current Liabilities (i) Creditors (For.... Month's Purchases)-(ii) Lag in payment of expenses WORKING CAPITAL (CA-CL)

NET WORKING CAPITAL REQUIRED

Add: Provision / Margin for Contingencies

XXX

XXX



# 1. MANUFACTURING CONCERN

STATEMENT OF WORKING CAPITAL REQUIREMENTS		
Amount (Rs.)		
Current Assets		
(i) Stock of R M( formonth's consumption) - RM.	****	
(ii)Work-in-progress (formonths)		
(a) Raw Materials	****	
(b) Direct Labour ·	*****	
(c) Overheads	*****	
(iii) Stock of Finished Goods (for month's sales) - Total (ost		
(a) Raw Materials 7	*****	
(b) Direct Labour Costal (ast	*****	
(b) Direct Labour Total (05) (c) Overheads At (iv) Sundry Debtors (for month's sales) Sales/At (05)	*****	
(iv) Sundry Debtors (for month's sales) Sales / At Cast		
(a) Raw Materials	263.44	
(b) Direct Labour (Total Cost	WERE	
(c) Overheads	*****	
(v) Payments in Advance (if any)	*****	
(iv) Balance of Cash for daily expenses	****	
(vii)Any other item	****	
Less: Current Liabilities		
(i) Creditors (For Month's Purchases) - RM	*****	
(ii) Lag in payment of expenses	****	
(iii) Any other	WEST	
WORKING CAPITAL ( CA – CL )xxxx		
Add: Provision / Margin for Contingencies	20 7 2 2	
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NET WORKING CAPITAL REQUIRED	XXX	



## Practical Questions

# 1. Prepare an estimate of networking capital requirement of Zero company from the data given below:

Estimated Cost per Unit of Production	Amount per Unit (Rs.)
Raw Materials	100
Direct Labour	40
Overheads	<u>80</u>
	220

Selling price per unit	Rs. 240
Level of activity	1,04,000 units per annum
Raw Materials in stock	average 4 weeks
Work in progress [Assume 100% stage of completion of materials and 50 per cent for labour and overheads]	average 2 weeks
Finished Goods in Stock	average 4 weeks
Credit allowed by Suppliers	average 4 weeks
Credit allowed to Debtors	average 8 weeks
Mages Computer of Wages	average 1 1/2 weeks.

SIBACA LONAVALA Cash at Bank is expected to be Rs. 25,000. Assume that production is sustained during 52 weeks of the year.

#### Solution:

#### Statement of working capital requirement

Α.	Current Assets	-	Amount (Rs. )	Amount (Rs. )
	Raw Materials	(2000 × 4 × 100)		8,00,000
	Work in Progress			
	Raw Material	(2000 × 2 × 100)	4,00,000	
	Wages	(2000 × 2 × 40) 50%	80,000	
	Overheads	(2000 × 2 × 80) 50%	1,60,000	6,40,000
	Finished Stock	(2000 × 4 × 220)		17,60,000
	Debtors	(2000 × 8 × (220) Price		35,20,000 3840,00
	Cash			25,000
	Total Current Assets (CA)			67,45,000 7065,00
В.	Current Liabilities			
	Creditors	(2000 × 4 × 100)		8,00,000
	Outstanding Wages	(2000 × 40 × 1.5)	00	S PANT SOOD OF

	otal Current abilities (CL)	9,2	20,000
Net Working	Capital (CA–CL)	58	3,25,000 6), 45,000

#### Working Notes:

(i) Annual production is 1,04,000 units and year is consisting of 52 weeks. So, the weekly production is 2000 units.

(ii) Debtors have been taken at cost of production.

#### 2. The cost sheet of PQR Ltd. provides the following data:

	Cost pe	Cost per unit (Rs.)	
Raw material	50	50	
Direct Labour	20	20	
Overheads (including depreciation of Rs. 10)	40	30	
Total cost	110	(00)	
Profits	20		
Selling price	130		

Average raw material in stock is for one month. Average material in work-in-progress is for half month. Credit allowed by suppliers: one month; credit allowed to debtors: one month. Average time lag in payment of wages: 10 days; average time lag in payment of overheads 30 days. 25% of the sales are on cash basis. Cash balance expected to be Rs. 1,00,000. Finished goods lie in the warehouse for one month.

You are required to prepare a statement of the working capital needed to finance a level of the activity of 54,000 units of output. Production is carried on evenly throughout the year and and overheads accrue similarly. State your assumptions, if any, clearly.

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**Solution :** As the annual level of activity is given at 54,000 units, it means that the monthly turnover would be 54,000/12 = 4,500 units. The working capital requirement for this monthly turnover can now be estimated as follows :

I.	Current Assets:	Amount	Amount
	Minimum Cash Balance	Rs. 1,00.000	
	Inventories:		
	Raw Materials (4,500 × Rs. 50)	2,25,000	
	Work-in-progress:		
	Materials (4,500 × Rs. 50)/2	1,12,500	
	Wages 50% of (4,500 × Rs. 20)/2	22,500	
	Overheads 50% of (4,500 × Rs. 30)/2	33,750	
	Finished Goods (4,500 × Rs. 100)	4,50,000	
	Debtors (4,500 × Rs. 100 × 75%)	3,37,500	
	Gross Working Capital	12,81,250	Rs. 12,81,250
II.	Current Liabilities :		O Allinuary
	Creditors for Materials (4,500 × Rs. 50)	2,25,000	SIBACA
	Creditors for Wages (4,500 × Rs. 20)/3	30,000	LONAVALA

	Creditors for Overheads (4,500 × Rs. 30)	1,35,000	
	Total Current Liabilities	3,90,000	3,90,000
1-	Net Working Capital		8,91,250

#### Working Notes:

- 1. The Overheads of Rs. 40 per unit include a depreciation of Rs. 10 per unit, which is a non-cash item. This depreciation cost has been ignored for valuation of work-in-progress, finished goods and debtors. The overhead cost, therefore, has been taken only at Rs. 30 per unit.
- 2. In the valuation of work-in-progress, the raw materials have been taken at full requirements for 15 days; but the wages and overheads have been taken only at 50% on the assumption that on an average all units in work-in-progress are 50% complete.
- 3. Since, the wages are paid with a time lag of 10 days, the working capital provided by wages has been taken by dividing the monthly wages by 3 (assuming a month to consist of 30 days).

# 4.00

## 3. The following information has been extracted from the records of a Company: Product cost sheet

Raw Materials	Rs. 45
Direct Labour	20
Overheads	40
Total	105
Profit	15
Selling price	120

- Raw materials are in stock on an average for two months.

The materials are in process on an average for one month. The degree of completion is respect of all elements of cost.



- Finished goods stock on an average is for one month.
- Time lag in payment of wages and overheads is 1½ weeks.
- Time lag in receipt of proceeds from debtors is 2 months.
- Credit allowed by suppliers is one month.
- 20% of the output is sold against cash.
- The company expects to keep a Cash balance of Rs. 1,00,000.

The Company is poised for a manufacture of 1,44,000 units in the next year.

You are required to prepare a statement showing the Working Capital requirements of the Company

# Solution: Statement showing the Working Capital requirement of the Company

Current Assets :	Amount(Rs.)	
Stock of Raw Materials (12,000 × 2 × Rs. 45)	10,80,000	
Work-in-progress (12,000 × 1 × Rs. 105) × 50%	6,30,000	
Finished Goods (12,000 $\times$ 1 $\times$ Rs. 105)	12,60,000	
Debtors (12,000 × 2 × Rs. 105 × 80%) At (ast	20,16,000	
Cash balances	1,00,000	50,86,000
Current Liabilities :		
Creditors of Raw Materials (12,000 × 1 × Rs. 45)	5,40,000	
Creditors for Wages & Overheads $(12,000 \times 60 \div 4)$ 1.5	2,70,000	8,10,000
Net Working capital (C.A – C.L)		42,76,000

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#### Working Notes:

1. Finished goods and Debtors have been taken at cost.

2. Production per month has been taken at 12,000 units. For payment of wages and overheads, month is taken as consisting of 4 weeks.

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## 4.Hi-tech Ltd. plans to sell 30,000 units next year. The expected cost of goods sold is as follows

	Rs. (Per Unit)
Raw Material	100
Manufacturing expenses	30
Selling, administration and financial expenses	20
Selling price	200

The duration at various stages of the operating cycle is expected to be as follows:

Raw Material stage

2 months

Work-in-progress stage

1 month

Finished stage

1/2 months

Debtors stage

1 month

Assuming the monthly sales level of 2,500 units, estimate the gross working capital requirement if the desired cash balance is 5% of the gross working capital requirement, and work-in-progress is 25% complete with respect to manufacturing expenses.

[B.Com. (H.), D.U., 2013 Adapted]



**Solution: Statement of Working Capital Requirement** 

Current Assets :	Amt.(Rs.)	Amt.(Rs.)
Stock of Raw Material (2,500 × 2 × 100)		5,00,000
Work-in-progress		
Raw Materials (2,500 × 100)	2,50,000	
Manufacturing Expense 25% of (2,500 × 30)	18,750	2,68,750
Finished Goods:		
Raw Material (2,500 × 1/2 × 100)	1,25,000	
Manufacturing Expenses (2,500 × ½ × 30)	37,500	1,62,500
Debtors (2,500 × 150) A.J. (ost		3,75,000
	± <sup>2</sup>	13,06,250
Cash Balance (13,06,250 × 5/95)		68,750
Working Capital Requirement		13,75,000

**Note:** Selling, administration and financial expenses have not been included in valuation of closing stock. However, Debtors have been valued at full cost. Alternatively, Debtors can also be valued at Rs. 30.



## 5. Calculate the amount of working capital requirement for SRCC Ltd. from the following information:

	Rs. (Per Unit)
Raw Material	160
Direct Labour	60
Overheads	120
Total cost	340
Profit	<u>60</u>
Selling price	400

Raw materials are held in stock on an average for one month. Materials are in process on an average for half-a-month. Finished goods are in stock on an average for one month.

Credit allowed by suppliers is one month and credit allowed to debtors is two months. Time lag in payment of wages is  $1\frac{1}{2}$  weeks. Time lag in payment of overhead expenses is one month. One fourth of the sales are made on cash basis.

Cash in hand and at the bank is expected to be Rs. 50,000: and expected level of production amounts to 1,04,000 units for a year of 52 weeks.

You may assume that production is carried on evenly throughout the year and a time period of four weeks is equivalent to a month.

#### Solution :-

1.	Current Assets:	Amount	Amount
	Cash Balance		Rs. 50,000
ADMINISTR	Stock of Raw Material (2,000 × 160 × 4)		12,80,000

	Work-in-progress:		
	Raw Materials (2,000 × 160 × 2)	Rs. 6,40,000	
	Labour and Overheads (2,000 $\times$ 180 $\times$ 2) $\times$ 50%	3,60,000	10,00,000
	Finished Goods (2,000 × 340 × 4)		27,20,000
	Debtors (2,000 × 75% × 340 × 8)  At Cast		40,80,000
	Total Current Assets		91,30,000
2.	Current Liabilities :		
	Creditors (2,000 × Rs. 160 × 4)		12,80,000
	Creditors for Wages (2,000 × Rs. 60 × 1½)		1,80,000
	Creditors for Overheads (2,000 × Rs. 120 × 4)		9,60,000
	Total Current Liabilities		24,20,000
	Net Working Capital (CA – CL)		67,10,000



#### 6. The data of ABC Ltd. is as under:

Production of the year	y. T	69,000 units
Finished Goods inventory		3 months
Raw Materials inventory	) ±	2 months consumption
Production process	25	1 month
Credit allowed by Creditors	F	2 months
Credit given to Debtors	) <sup>22</sup>	3 months
Selling Price per unit	3	Rs. 50 each
Raw Material	P	50% of selling price
Direct Wages	7	10% of selling price
Overheads		20% of selling price

There is a regular production on sales cycle, wages and overheads accrue evenly. Wages are paid in the next month of accrual. Material is introduced in the beginning of production cycle. Work-in-process involves use of full unit of raw materials in the beginning of manufacturing process and other conversion costs equivalent to 50%.

You are required to find out working capital requirement of ABC Ltd.

#### **Solution:**

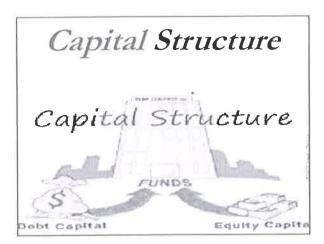
Monthly Production  $(69000 \div 12) = 5750$ 



Statement of Working Capital Requirement

I. Curre	nt Assets	:		
		RM (5,750 × 2 × 25)	Rs. 2,87,500	
WIP		RM (5,750 × 1 × 25)	1,43,750	
		W (5,750 × 1 × 5) 50%	14,375	
		O/H (5,750 × 1 × 10) 50%	28,750	
		FG (5,750 × 3 × 40)	6,90,000	
		Debtors (5,750 × 3 × 40) At (051	6,90,000	Rs. 18,54,375
II. Curr	ent Liabi	lities:		
		Creditors (5,750 × 2 × 25)	2,87,500	
		Wages (5,750 × 1 × 5)	28,750	3,16,250
Working	Capital F	Requirement (CA – CL)	1	15,38,125





## Capital Structure

- Capital structure can be defined as the mix of owned capital and borrowed capital
- †Maximization of shareholders' wealth is
  prime objective of a financial manager.

## Capitalization and Capital Structure

- Capitalization refers to the total amount of long-term funds employed by the firm.
- Capital structure signifies the kinds of securities and their proportion in the total capitalization of a firm.

#### Optimal Capital Sturcure

- ☐ The optimal or the best Capital Structure implies the most economical and safe ratio between various types of securities
- ☐ It is that mix of debt and equity which maximizes the value of the company and minimizes the cost of capital.



#### Financial structure and capital structure.

- Financial structure is different from capital structure. It means the composition of the entire liabilities side of the balance sheet.
- It shows the way in which the firm's assets are financed.
   Financial structure includes long-term as well as short-term sources of finance.
- Capital structure signifies the proportion of long-term sources of finance in the capitalization of the firm.
- It is represented by shareholders' funds and long-term loans. Capital structure is a part of the financial structure.

#### Importance/Features of Capital Structure

- Maximum Returns
- Less Risky
- Safety
- Flexibility
- Economy
- Capacity
- Control

#### Factors affecting Capital Structure Internal Factors

- ) Size of Business
- ?) Nature of Business
- 3) Regularity and Certainty of Income
- I) Assets Structure
- Age of the Firm
- i) Desire to Retain Control
- 7) Fulure Plans
- 3) Operating Ratio
- Trading on Equity
- 0) Period and Purpose of Financing

## Factors Affecting Capital Strucure External Factors

- ) Capital Market Condition
- 2) Nature of Investors
- 3) Statutory Requirements
- 1) Taxation Policy
- Policies of Financial Institutions
- Cost of Financing
- Seasonal Variations
- B) Economic Fluctuations
- Nature of Competition



#### Forms of pattern of Capital Structure: (Sources of Finance)

The capital structure of a new company generally includes the following:

- a) Equity shares
- b) Preference shares
- c) Debentures or Bonds
- d) Long-term'loans

#### Theories of Capital Structure

The four major theories or approaches which explain the relationship between capital structure, cost of capital and valuation of firm are:

- 1. Net Income (NI) Approach
- 2. Net Operating Income (NOI) Approach
- 3. The Traditional Approach
- 4. Modigliani-Miller (MM) Approach

## Capital Structure Theories



#### ASSUMPTIONS -

- Firms use only two sources of funds equity & debt.
- No change in investment decisions of the firm, i.e. no change in total assets.
- 100 % dividend payout ratio, i.e. no retained earnings.
- Business risk of firm is not affected by the financing mix.
- \* No corporate or personal taxation
- Investors expect future profitability of the firm

## Capital Structure Theories – A) Net Income Approach (NI)

- This approach has been propounded by Durand David in 1959
- Net Income approach proposes that there is a definite relationship between capital Structure and value of the firm.
- According to this theory a firm can increase the value of the firm and reduce the overall cost of capital by increasing the proportion of debt in its capital structure to the maximum possible extent.
- NI approach assumptions -
  - NI approach assumes that a continuous increase in debt does not affect the risk perception of investors.
  - o Cost of debt  $(K_d)$  is less than cost of equity  $(K_o)$  [i.e.  $K_d < K_c$ ]
  - o Corporate income taxes do not exist.



The total market value of the firm (V) under the Net Income Approach is ascertained by the following formula-

- V = Total market value of the firm
- S = Market value of equity shares (N1/Ke)
- D = Market value of debt (I/Kd)

• 1 = Interest

Kd = Cost of Debt

• The overall cost of capital (Ko) Or Weighted average cost of capital is calculated as under

Ko = EBIT/V

EBIT = Earning Before Interest and Tax

Pariticulars	Amount
Net Operating Income (EBIT)	XXX
Less: Interest on debenture (I)	Xxx
Earning Available to Equity Shareholders (NI)	Xxx
Equily Capitalization Rate (Ke)	Xxx (%)
Market Value of Equity (S))	Xxx
Market Value of Debt (D)	Xxx
Total Value of the Firm (S+D)	Xxx
Overall Cost of Capital (Ko) = EBIT/V (%)	Xxx (%)

A company expects EBIT of Rs 100000 It has Rs 250000,8% Debentures. The equity capitalization rate of the company is 10%.

1) Calculate the value of the firm and overall cost of Capital according to the Net Income.

Approach

2) If the debenture debts are increased to Rs. 400000. What shall be the value of the firm and

	Pariticulars	Amount
1) Ans -	Net Operating Income (EBIT)	100000
	Less: Interest on debenture (I) (250000x8%)	20000
	Earning Available to Equity Shareholders (NI)	80000
	Equity Capitalization Rate (Ke) (Cost of Equity)	10%
	Market Value of Equity (S) (80000/10%)	800000
	Market Value of Debt (D)	250000
	Total Value of the Firm (V) = (S+D)	1050000
	Overall Cost of Capital (Ko) = EBIT/V (%) (100000/10500000) x 100	9 52%

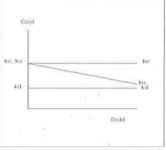
2) Ans :- If the debenture debts are increased to Rs. 400000. What shall be the value of

Patriculari	Amount
Net Operating Income (EBIT)	100000
Less: Interest on debenture (I) (400000x8%)	32000
Earning Available to Equily Shareholders (NI)	68000
Equity Capitalization Rate (Ke)	10%
Market Value of Equity (S) (68000/10%)	680000
Market Value of Debt (D)	400000
Total Value of the Firm (V) = (S+D)	1080000
Overall Cost of Capital (Ko) = EBIT/V (%) (100000/10800000) x 100	9,26%

Conclusion :- With the increase in debt financing (from Rs. 250000 to Rs. 400000, the value of the firm increased (from Rs. 1050000 to Rs. 1080000 and the overall cost of capital has decreased (from 9.52% to 9.26%)



# Capital Structure Theories – A) Net Income Approach (NI) As the proportio



As the proportion of debt  $(K_d)$  in capital structure increases, the WACC  $(K_0)$  reduces.

#### Capital Structure Theories – B) Net Operating Income (NOI)

- Net Operating Income (NOI) approach is the exact opposite of the Net Income (NI) approach.
- As per NOI approach, value of a firm is not dependent upon its capital structure. Thus, There is no Optimal Capital Structure.
- The capital structure decision is irrelevant and the degree of financial leverage does not affect the WACC and market value of the firm.
- Assumptions –
- o WACC is always constant, and it depends on the business risk.
- Value of the firm is calculated using the overall cost of capital i.e. the WACC only.
- " The cost of debt (Ka) is constant.
- o Corporate income taxes do not exist.

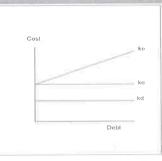
## Capital Structure Theories – B) Net Operating Income (NOI)

- · NOI propositions (i.e. school of thought) -
  - The use of higher debt component (borrowing) in the capital structure increases the risk of shareholders.
  - Increase in shareholders' risk causes the equity capitalization rate to increase, i.e. higher cost of equity (K<sub>e</sub>)
  - ∧ higher cost of equity (K<sub>e</sub>) nullifies the advantages gained due to cheaper cost of debt (K<sub>d</sub>)
  - In other words, the finance mix is irrelevant and does not affect the value of the firm.

#### **NEUTRALIZATION**

- The increase in the proportion of debt in the capital structure would lead to increase in the financial risk of equity share holders
- The advantage associated with the use of the relatively less expensive debt in terms of explicit cost is exactly neutralized by the implicit cost of debt represented by the increase in the cost of equity capital.





- Cost of capital (K<sub>0</sub>) is constant.
- As the proportion of debt increases, (K<sub>c</sub>) increases.
- No effect on total cost of capital (WACC)

Pariticulars	Synami
Net Operating Income (EBIT/NOI)	xxx
Overall Capitalization Rate (Overall Cost of Capital) (Ko)	Xxx
Total Value of the firm (EBIT/Ko)	Ххх
Less Market Value of Debt (D)	(Xxx)
Market Value of Equity (S))	Ххх
Earning Available to Equily Shareholders (NOI – Interest)	Xxx
Equity Capitalization rate (NOI-Interest / S) X 100	Xxx (%)

A company expects EBIT of Rs 200000. It has Rs 800000, 7% Debentures. The Overall capitalization rate of the company is 10%. It Capitalization Rate (Cost of Equity) according to the Net Operating Income Approach.

2) It the debenture debts are increased to Rs 1200000. What shall be the value of the firm and Equity Capitalization Rate (Cost of Equity)?

Purpositirs	Amount
Net Operating Income (EBIT/NOI)	200000
Overall Capitalization Rate (Overall Cost of Capital) (Ko)	10%
Total Value of the firm (EBIT/Ko) (200000/10%)	2000000
Less Market Value of Debt (D)	(800000)
Market Value of Equity (S)	1200000
Earning Available to Equity Shareholders (200000-56000)	144000
Equity Capitalization rate (144000/1200000) x 100	12%

2) Ans If the debenture debts are increased to Rs 1200000. What shall be the value of the firm and Equity Capitalization Rate (Cost of Equity)?

FARHENIUM I I I I I I I I I I I I I I I I I I	Arrestor
Net Operating Income (EBIT/NOI)	200000
Overall Capitalization Rale (Overall Cost of Capital) (Ko)	10%
Total Value of the firm (EBIT/Ko) (200000/10%)	2000000
Less Market Value of Debt (D)	(120000)
Market Value of Equity (S)	800000
Earning Available to Equity Shareholders (200000-84000)	116000
Equity Capitalization rate (116000/800000) x 100	14.5%

Conclusion : With the increase in debt financing (from Rs. 800000 to Rs. 1200000, the value of the firm remaine unchanged but Equity capitalization rate will increased (from 12% to 14.5%)



#### Capital Structure Theories – D) Modigliani – Miller Model (MM)

- MM approach supports the NOI approach, i.e. the capital structure (debt-equity mix) has no effect on value of a firm.
- MODIGLIANI- MILLER explain the relationship between capital structure, cost of capital and value of the firm under two Propostions:
  - 1. When there is no corporate taxes
  - 2. When there is corporate taxes

#### Capital Structure Theories – C) Modigliani – Miller Model (MM)

#### 1) WHEN THERE IS NO CORPORATE TAXES

- The MODIGLIANI- MILLER Approach is identical to NOI approach when there are no corporate taxes.
- MODIGLIANI- MILLER argue that in the absence of taxes, the cost of capital and value of the firms are not affected by capital structure or debt-equity mix.
- Change in Debt/Equity Ratio affect Ke But Ko remaining constant. But beyond certain limit of debt the Kd increase and Ke decrease again keeping Ko constant

## Capital Structure Theories –

- As per MM approach, 2 identical firms(levered firm and Unlevered firm) which are exactly similar in all resepct (except leverage) cannot have different values for long period of time.
- If market value of identical firms are different ,"Arbitrage Process" will take place
- Arbitrage process includes buying and selling of those securities which are out of equilibrium in the capital market. i.e. Buying of undervalued securities and selling of overvalued securities.
- This will continue till the equilibrium is restored. Thus Arbitrage ensures that the securities of two identical firms cannot sell at different price for long.
- Thus Capital structure decision of a firm does not affect its Market Value

#### Modigliani – Miller Model (MM) Assumption

- The MM hypothesis is based on the following assumption
- There is perfect market. It implies that
- (a). Investors are free to buy and sell securities:
- (b). they can borrow freely on the same term as the firms do;
- (c). Investors act in a rational manner.



#### Modigliani – Miller Model (MM) Assumption

- There are no corporate taxes.
- There are no transaction costs.
- The payout is 100 per cent. That is, all the earnings are distributed to shareholders.
- Firms can be grouped into homogeneous risk classes.

#### Capital Structure Theories – C) Modigliani – Miller Model (MM)

#### 2. When there are corporate taxes:

Modigliani an Miller have recognized that capital structure would affect the cost of capital and value of the firm, when there are corporate taxes.

If a firm uses debt in its capital structure, the cost of capital will decline and market value will increases. This is because of the deductibility of interest charges for computation of tax

Since interest is the tax deductible, the effective cost of borrowing will be less than the rate of interest.

#### Modigliani - Miller Model.

- According to MM Approach, the value of levered firm (Which uses debt) would be exceed that of the unlevered (Which does not use debt) by and amount equal to the Levered firm Debts multiplied by the Tax rate.
- Value of levered firm = Value of unlevered firm + (Tax rate x Debt)
- VL = Vu + (D x T)
- According to the M-M approach, the value of an unlevered firm (Which does not use debt) can be calculated as follows.
- Value of unlevered firm, Vu = EBIT(1-t)/ Ke (as only equily in CS)
  Where EBIT = Earnings Before Interest an Taxes

T = Tax rate

Ke = Cost of equity

#### Example of MM Approach

Company A and B are homogeneous in all respects except that Company A is levered while Company B is unlevered. Company A has Rs. 5,00,000 assumptions are met and the tax rate is 50%. (3) EBIT is Rs. 50,000 and that equity-capitalisation rate for Company B is 12%. What would be the value for each firm according to M— M's approach?

Value of unlevered Firm (Vu) = [EBIT (1-t)]/Ke

= [50,000\*(1-0.5)] / 12%

=Rs. 2,08,333

Value of levered Firm (VL)

= Rs, 2,08,333+ (Rs. 5,00,000 X 50%)

= Rs. 4,58,333



#### Criticism of MM Approach

- 1. Imperfections do exist in Capital Market
- 2. The assumption of rate of interest fails in practice
- 3. Personal leverage is no substitute for corporate leverage
- 4. the assumption of the absence of transaction cost is also not correct.
- 5.The assumption of non- existence of corporate tax is also not correct.

#### Capital Structure Theories – D) Traditional Approach

- The NI approach and NOI approach hold extreme views on the relationship between capital structure, cost of capital and the value of a firm.
- Traditional approach (*'intermediate approach*) is a compromise between these two extreme approaches.
- According to Traditional Approach, weighted average cost of capital decreases only upto certain level of financial leverage and starts increasing beyond certain level of judicious mix of debt and equity.

#### Capital Structure Theories – D) Traditional Approach

- Hence, Traditional approach confirms the existence of an optimal capital structure; where W.ACC is minimum and value is the firm is maximum.
- As per this approach, a best possible mix of debt and equity will maximize the value of the firm.

#### Capital Structure Theories – D) Traditional Approach

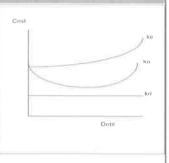
The approach works in 3 stages -

- 1) Value of the firm increases with an increase in borrowings (since  $K_d \le K_e$ ). As a result, the WACC reduces gradually. This phenomenon is up to a certain point.
- 2) At the end of this phenomenon, reduction in WACC ceases and it tends to stabilize. Further increase in borrowings will not affect WACC and the value of firm will also stagnate.
- 3) Increase in debt beyond this point increases shareholders' risk (financial risk) and hence K<sub>e</sub> increases. K<sub>d</sub> also rises due to higher debt, WACC increases & value of firm decreases.



#### Capital Structure Theories — D) Traditional Approach

- Cost of capital (K<sub>0</sub>)
  is reduces initially.
- At a point, it settles
- But after this point, (K<sub>0</sub>) increases, due to increase in the cost of equity. (K<sub>0</sub>)



#### Example of Traditional Approach Theory

- Compute the value of the firm, value of shares and average cost of capital from the following information:
- Net Operating Income

Rs. 2.00.000

Total investment

Rs\_10,00,000

- Equity Capitalization Rat, If:
- ) Firm uses no debt

10%

Firm uses Rs. 4,00,000 as debt

11%

Firm uses Rs. 6,00,000 as debt

15%

Assume that Rs. 4,00,000 debt can be raised at 5% and Rs. 6,00,000 in be raised at 7% rate of Interest.

Particular	No Debt	Pls. 400000 (5%)	Rs. CODOO((72))
Net Operating Income (EBIT)	2,00,000	2,00,000	2,00,000
Less: Interest on debenture (I)	200	20,000	42,000
Earning Available to Equity Shareholders	2,00,000	1,80,000	1,58,000
Equily Capilalization Hale (Ke)	10%	11%	15%
Market Value of Equity (S)	20,00,000	16,36,363	10,53,333
Market Value of Debt (D)		4,00,000	6,00,000
Total Value of the Firm (V) = (S+D)	20,00,000	20,36,363	16,53,333
Overall Cost of Capital (Ko) = EBIT/V (%)	10%	9.82%	12 09%

 $\underline{\textbf{Conclusion}} \text{ - From the solution above, we can conclude that the increasing the debt portion, over a certain limit, has increased the cost of capital eventually.}$ 

#### EBIT(PBIT)- EPS Analysis

EBIT - Earning Before Interest and Tax

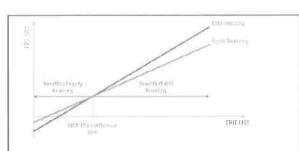
EPS - Eaming per Share

 EBIT-EPS analysis is a technique used to determine the optimal capital structure in which the value of EPS has the highest amount for a given amount of EBIT

EBIT-EPS analysis gives a scientific basis for comparison among various financial plans and shows ways to maximize EPS.

Hence EBIT-EPS analysis may be defined as 'a tool of financial planning that evaluates various alternatives of financing a project under varying levels of EBIT and suggests the best alternative having highest EPS and determines the most profitable level of EBIT'.



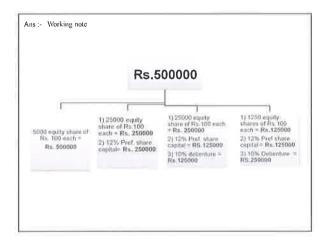


Explainations- When EBIT reaches the EBIT-EPS indifference point, both financing plans generate equal EPS, However, if EBIT has a lower value, equity financing will generate higher EPS than debt financing. For any value of EBIT to the right of the indifference point, debt financing will give a higher value of EPS because of a higher degree of financial leverage.

#### Example of EBIT- EPS Analysis

- Suppose, ABC Ltd. which is expecting the EBIT of Rs.1,50,000 per annum on an investment Rs.5,00,000, is considering the finalization of the capital structure or the financial planSuppose, it analyzes the following four options to raise the required funds of Rs.5,00,000
- 1) By issuing equity share capital of RS, 100 each
- 2) 50% funds by equily share capital and 50% funds by 12%preference hares.
- 3) 50% funds by equity share capital, 25% by 12% preference shares and 25% by issue of 10% debentures.
- ) 25% funds by equity share capital, 25% as 12% preference share and 50% by the issue of 10% debentures

Assuming that ABC Ltd. belongs to 50% tax bracket, the EPS under the above four options can be calculated as follows:



Particulars	Option	Option 2	Elptions 3	Option 41
EBIT	150000	150000	150000	150000
Less-Interest	*****	*****	12500	25000
EBT	150000	150000	137500	125000
Less-Tax (50%)	75000	75000	68750	62500
PAT	75000	75000	68750	62500
Less - Pref. Dividend	1000	30000	15000	15000
Amount available to Equity shareholders	75000	45000	53750	47500
No of Equity shares	5000	2500	2500	1250
EPS = Amount available to equity shareholders / no of equity shares	75000/5000 = <b>15</b>	45000/2500 =18	53750/2500 =21.5	47500/1250 = 38



#### Indifference Point - Example

Debarathi Co. Ltd., is planning an expansion programme. It requires Rs 20 lakhs of external financing for which it is considering two alternatives. The first alternative calls for isstring 15,000 equity shares of Rs 100 each and 5,000 10% Preference Shares of Rs 100 each; the second alternative requires 10,000 equity shares of Rs 100 each, 2,000 10% Preference Shares of Rs 100 each and Rs 8,00,000 Debentures carrying 9% interest. The company is in the tax bracket of 50% You are required to calculate the indifference point for the plans and verify your answer by calculating the EPS.

#### Computation of FPS under Different Plans

	Phas to	Plan II
1 111	1,20,000	1.36.001
Less Taterest		"2 01F1
1 1)	1,55 (00)	ps [ filt]
less las	68 001	57 0011
1 \	68.000	32 160
Less Prefere sex Dividend	40,000	20,000
Lacrongs is clubble to expuny ship cholders	18 000	12 000
No of equity state	13 000	10 000
La ming available to equite sha enables	18 1400	2.100
Vimber of equity shores	15,040	0.1(0)
	Rs 1.20	Rs 1.20

		Plan I (Rs)	Plan II (Rs)	
	Equity share capital 10% Preference share capital	15,00 000 5 00 000	2,00,000	
	9% Debentures Total	20,00.000	20.00,000	
	Number of equity shares	15,000	10,000	
EPS under let el Again, EPS und	EBIT, the EPS under both the plan terms tive $\frac{\lambda(1-t)-P_1}{N_1} = \frac{\lambda(1-0.5)}{15}$ or 2nd afternative: $\frac{(\lambda-J)(1-t)-P_2}{N_2}$ both the EPS we set	000	GXI - 0.5 ( - 21) E0.18 (0	,Q-11C
EPS under I.s. el Again, EPS und Now, sejualizing ⇒	Iterative $A(1-t) = P_T = X(1-0.5)$ $N_T = 10.5$ er 2nd alternative: $(X-J)(1-t) = \tilde{p}$ both the EPS we get $A(1-0.5) = 50.000$ A(1-0.5) = 50.000 A(1-0.5) = 50.000	) · 20,000 600 y = (X - 72,00) 72 000) 1 - 0.3 10,000	) - 20,000	-11-C),
EPS under let el Again, EPS und	Iterative $\frac{A(1-t)-P_1}{N_1} = \frac{X(1-0.5)}{15}$ , and $\frac{15}{15}$ , and alternative: $(X-J)X(1-t)-P_1$ both the EPS we get $\frac{A(1-0.5)-30,000}{15,000} = \frac{4X-15,000}{15,000} = \frac{6.5X-50,000}{0.5,000} = \frac{6.5X-50,000}{0.5,000}$	) - 20,000 600 2 = (X - 72,00 72 000) (1 - 0.3 10,000 26 000 = 20	) - 20,000	, <b>0</b> -10-
EPS under I.s. el Again, EPS und Now, sejualizing ⇒	Iterative $\frac{\lambda(1-t)-P_1}{N_1} = \frac{X(1-0.5)}{15}$ , and afternatives $\frac{(X-J)(1-t)-P_1}{R_2}$ both the EPS we get $\frac{\lambda(1-9.5)-20.000}{15.000} = {}^{1}X^{-1}$ $= \frac{5.5Y-50.000}{0.5Y-50.000} = 0.5Y$	] - N.000 600 2 = (X - 72,00 72 000)(1 - 0.3 10,000 26 (00) = 20 1,000 26 (00) = 20 20 20 20 20 20 20 20 20 20	) - 20,000	, <b>Φ</b> 16

#### Trading on Equity

The concept of trading on equity refers to the use of debt component in the capital employed. A company is required to create a capital structure in such a way which help in increase wealth of equity shareholders.

If use of debt in the capital structure increase the earning before equity shareholders, such situation is called trading on equity. They stand to gain of their earning per share increase with the inclusion of debt component in the capital employed.

## Why and Where trading on equity is used?

Trading on equity is used to increase the earning per share and to maximise the wealth of equity shareholders. This is possible when a company needs more funds and raises debt funds for its financial requirements. For this Return on Investment (ROI) should be more than the Rate of Interest on Debt.

Trading on equily can be used when the company is financially strong and is capable of paying fixed commitments in the form of interest and preference dividend and repayment of long term funds raised in time



## Example of Trading on Equity

Total capital employed

= ₹ 30,00,000

Interest on debt

= 10%

Tax Rate

= 30%

Earnings before interest and tax (EBIT) = ₹ 4,50,000

Return on investment =

= (Net profit before interest and tax / capital employed) × 100

= ( ₹ 4,50,000 / ₹ 30,00,000) × 100 Return on investment = 15%

Components	Situation I	Situation II
Equity share capital # 4 each	2 (0.0E)(E3)	2 (0.00(00))
10° Debenua's	\$ 10,00000	\$ 20,00,000
Total Capital Employed	7.30000000	7.30,00,000
Earnings before Interest and Tax	₹4,50,(00	£4,50,000
Less: Interest @ 10%	₹ 1,00,000	₹ 2,80,000
Earning after fatorest	₹ 3,50,(31)	₹ 2,50,000
Less Tax @ 30%	₹ 1,05,000	₹ 75,000
Earning after tax	₹ 2,45,000	₹ 1,75,000
Farning Per Share	₹2,45,000 20,000 = ₹12,25	₹1,75,000 10,000 - ₹17

## conclusion

- In the above situation, though capital employed as well as rate of tax are same but with the inclusion of debt in the second situation, earning per share has increased from ₹ 12. 25 per share to 17.5 per share.
- Hence, there is trading on equity and the wealth of equity shareholders has been increased.
- It is due to the reason that ROI is 15% which is more than Rate of Debt of 10%.



#### **Capital Structure planning**

1) Progressive Company Ltd. has the following capital structure

Equity Capital (Rs. 10 each)

Rs. 10,00,000

15% Debentures

Rs. 8,00,000

Total

Rs. 18,00,000

The company is planning to raise another Rs. 15,00,000 for modernisation and expansion.

The following alternatives are considered:-

- a) To raise the entire amount by equity share capital (Rs. 10 each)
- b) To raise the amount by term loan at an interest rate of 16%
- c) To raise 50% amount by equity capital and the balance by 16% term loan.
- d) To raise Rs. 8,00,000 by equity share capital, Rs. 4,00,000 by 16% term loan and the balance by 14% preference share capital.

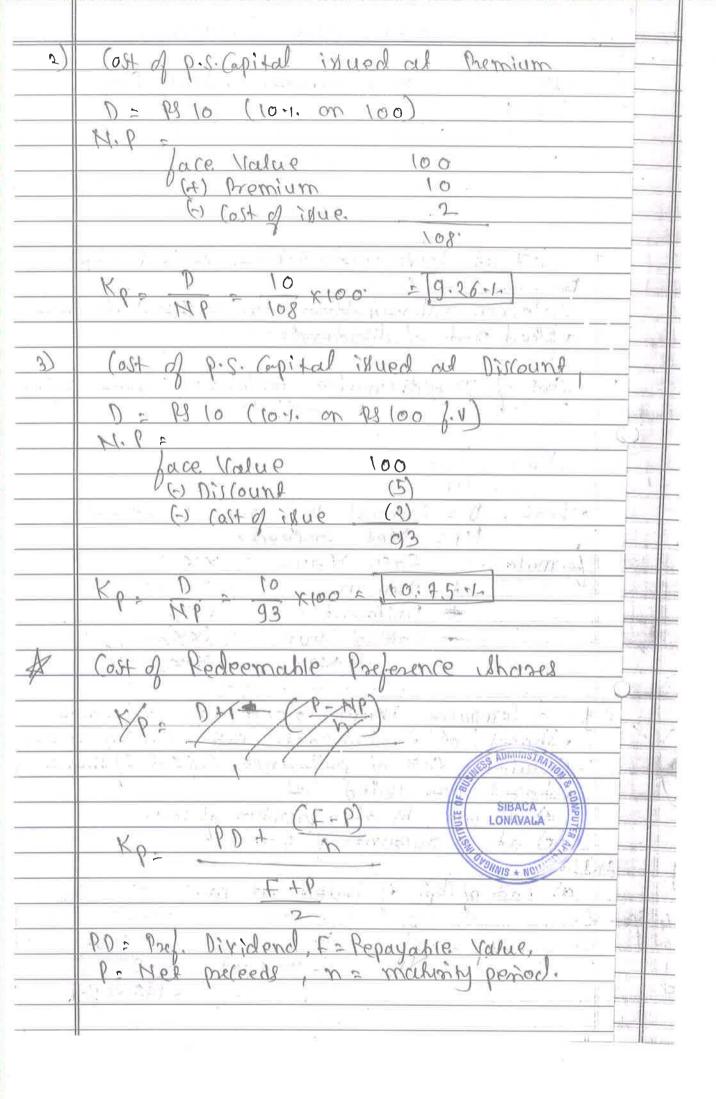
  Assuming an income-tax of 50% and an EBIT of Rs. 8,00,000, advise the company about the proper alternative on the basis of EPS.
- 2) XYZ Ltd has currently an ordinary share capital of Rs. 250 lakhs consisting of equity shares of Rs. 100 each. The company is planning to raise another Rs. 200 lakhs for financing a major expansion programme. The following four options are available
  - a) Entirely through ordinary shares
  - b) Rs. 100 lakhs through ordinary shares and the balance by 15% term loan.
  - c) Rs. 50 lakh through ordinary shares, Rs. 150 lakhs through long term borrowing at 15% rate of interest.
  - d) Rs. 100 lakhs through ordinary shares, and Rs. 100 lakhs through preference shares with 14% dividend.

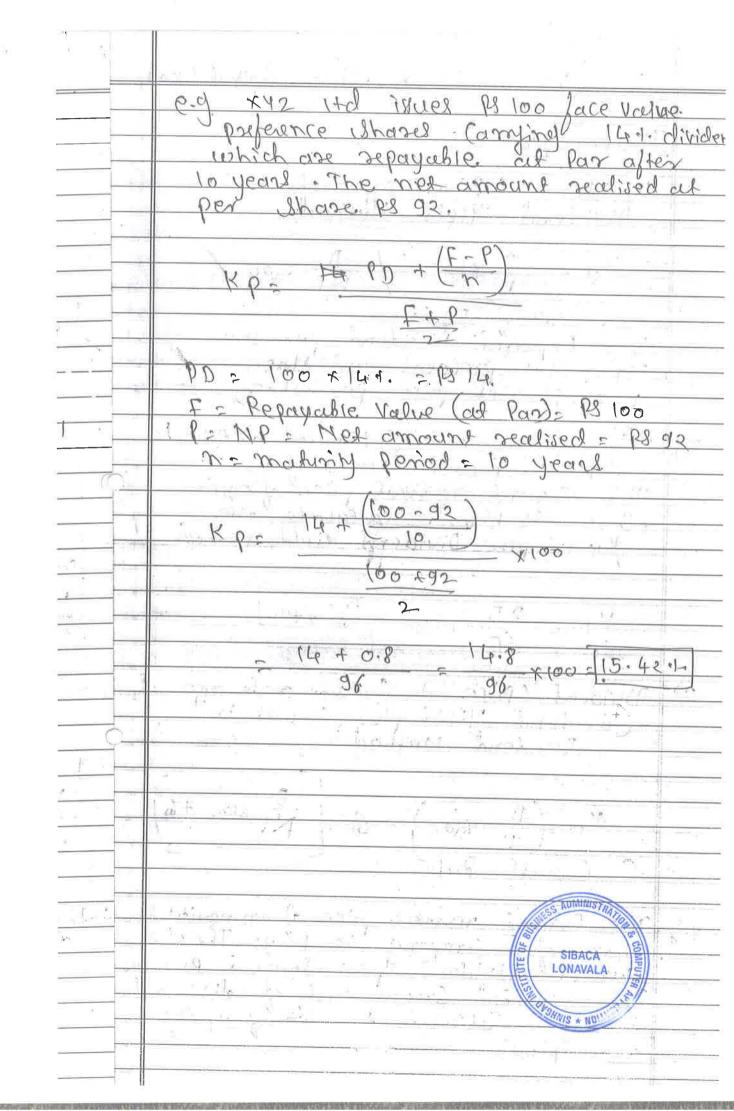
Expected EBIT of the company is Rs. 80 lakh. Calculate EPS under each alternative and advise the company about the most beneficial alternative. Income tax rate can be taken as 50%.

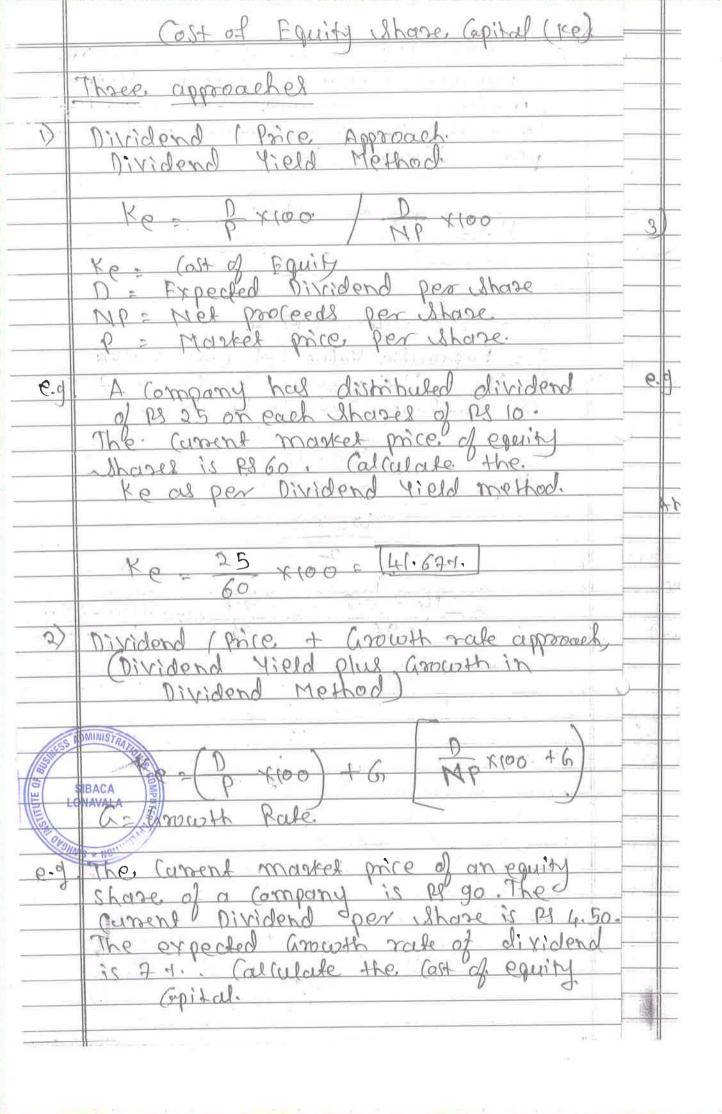
SIBACA LONAVALA

A)	
	Cost of Capital (Problems)
	Land with the land to the land of the land
A)	(ast of Preference Share Capital (Kp)
_B)	Cast of
	Mary 1 - " Destroy 1 - 1 - 1
	- Confirmal Delivery Confirmation Confirmati
-	
7	(a) at Paulance 11/2
	Cost of Preference Share Capital (kp)
	Preference Shareholders are entitled to have.
1	afred rate of dividends.
4	Quencia see and a facility of the second sec
1)	Cost of Irredeemable preference Share apital
-	Kp. D
	NP (3) Advoited to
	where, D = Annual Preference Dividend
	MP: Mex proceeds
	formula, face Value XX
	+ Promium xx + Discount (xx)
	- Cart of ixue (xx).
1	NP XX
0	
е.	9. A Company ixues 10,000, 10.1. preference
	shares of Ps. 100 each, cost of issue is 21.
	Calculate Cost of preference Capital, if there.
	sharel are issued as
1 11.77-741	a) at par b) at a premium of 10-1.
۸.	s) at a discount of 5-1.
47	SIRACA (CI)
	as (ast of (Kp) i) issued at Par   LONAVALA )
=0 T 2	KP = NO - 10 Con Man 2 - 20 Hoo
	NP - 100-(100 X211.) 98
	= [10.50.1.]

 $s_{i}$ 







	Ke= (4.50 - K100) + 7-1.	
	= 5-1. +7-1.	· ·
3	Earning (Price Approach [Farning Yield Method)	
	O	Æ.
] 0.	4. A Company Shares are Currently	
	trading at a price of PS to with  500000 outstanding Shares. Their  expected profit after Tax for the Comit  4000000, Calculate Ke.	in
	Ke = EPS X100	
	tps Amount Available to E.S. Holders	+ 4-
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6)	500000 Ke 16.8 (100 - 1241)	
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	Cost of Dehenhard (Debt) (Kd)	
A),	Cost of Irredeemable Debenhues	
B)	(ast o) Redeemable Debentures as Before Tax	2)
- 1	b) After Tax	
	(ast of Irredormable Debenhals before paso	
6 A		
6.9	Company issued 10000, 101. Debenhures  of 19 100 each on 14 April. The cost of issue was PS 25000. Determine the.  (ast of debentures if the were issued  i) at a premium of 101.  ii) at a discount of 101.	8
	i) Debendure idued at a premium of love	
	Kd: I x100 (1=10,000,00 x 10.1)	
	N.P (. Value. (10000 x 100) (0,00,000	S 18 1
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- x	1075000 × 100 = 9.30 ·1.	
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	kd: 100000 x 100 = [11.43.1.]
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04	Cost of Irredeemable Debendures After Tax
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0 6	· Afrom issued 10.1. Debenhered of Ps 100,000
0	after allowing 21. Commission & realized
	98000. The depending are due for
	making at the end of the lot year.  Calculate debt before tax & after tax
	Callulate debt before tax & after tax
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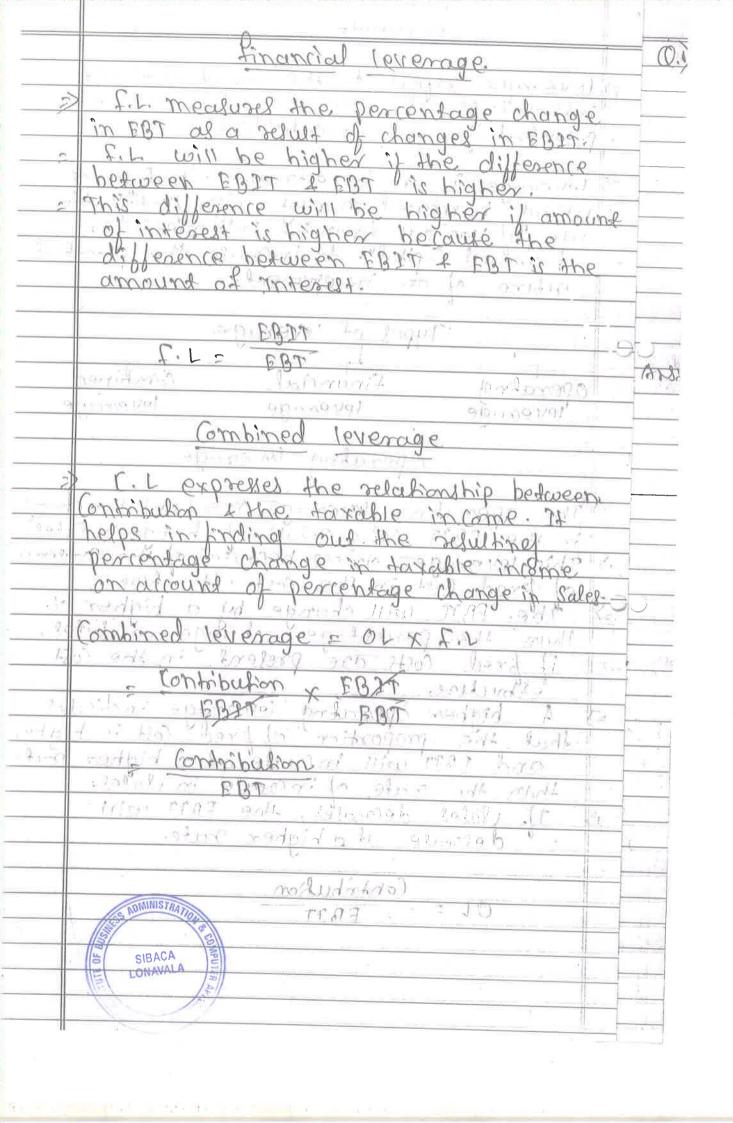
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	of. Madhun (td. has its books on the
	Lollowing amounts & Specific Cost of
	following amounts & Specific Cost of each stype of Capital
45	Type of apital Book Market Specific
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any	Préférence 100000 110000 8
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ent	Retained Earning 200000 300000 13
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	1300000 (6,90000
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	NSW MACE (Book Value)
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	R.E 200000 8.15 13 1.95
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everage. fers to the use of fixed cast potential for the Shareholders. investment strategy 10 leverage is an using borrowed money - specifically the use of various financial instruments or borrowed Capital - to increase the potential return of an investment Types of leverage combined financial operating leverage leverage leverage leverage The openating reverage measured the change in the FBIT as a result of change in Sales. This leverage arises because of the presence of fred cost in the cost istructure FBIT will change by a higher 1. fixed costs are present in the cost Mouchese. 1807 -A higher operating leverage indicates
that the proportion of fixed (ast is higher
and EBIT will increase at a higher rate
than the rate of increase in sales. Isales decreases, the FBIT will dersease at a higher rate. OMINISTRATION (ontribution EBIT SIBACA LONAVALA



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<u> </u>	The Capital Structure of ABC Hd. Consists
	of equity Share Capital of PS 10,00,000
	(Share of PS 10 each) and PS 10,00,000
2	of 20-1. Debenduses
4	Other particulars
-	variet farmans
1: 4	Sales 200000 unis
T.Dof	Welling Price Ps 10 perunit
	Variable Cast P8 5 per unit
2	Fred Cost PS 400000
+	Rate of Jax 501.
4-	Calculate, CL, F.L & O.L
	Cartain, Co, Fin a Ust
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	Unit was the	
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	Capital Budgeting Techniques
	Traditional Techniques Discounted Cash flow
3	Non- Discountry Cash. Techniques
- 1 1 1	flow methods
1	Payback Period 12 MPV
2)	ARR DIRR
	3) PI
	Payback Period Methods
00.	
(A)	
	Payhack period = Initial outlow Initial investment
	Annual Cash inflow
	eg. Initial investment in a proposal involves
	eg. Initial investment in a proposal involves PS 10,00,000 and annual Cash inflow is Projected at PS 2,00,000 p.a. for 8 years.
	Projected at B 2,00,000 p.a. for 8 years.
- L	Payhack period = 1000,000 = 5 years
	200000
0	When Annual Cash inflow is unequal
	Payhaet Period = P + 13
	where P = No. of years immediately preceding
	B = Balance an ount to be recovered
	B = Balance and ount to be recovered in the year of final recovery
	c = Cash in/low in the year of
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	Average investor	PLO LO	NAVALA S
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ρ	a Calculate APP when an investment
	Costing RS 40,00,000 is expected to
	produce following profits
	Mear MPAT
	1 320000
	640000
	3 720000
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A	83) (920000
	APP
00	Average NPAT - 1920000 = 480000
4	4 ,
	Average Investment 4000000 = 20,0000
	2-
	ARP = 480000 Klos= 24-11.
	20,00000
<b>V</b>	
	Met Present Value (MPV)
	13 X 17 X 10 10 10 10 10 10 10 10 10 10 10 10 10
	MPV: Present Value of Cash Inflows -
	Present Value of Cash outlow.
	EBDET XXX
	Cash Inflow = Dep XX
	EBIL XXX
N	- IN XX
	EBT XXX
	- Tax **
	NPAT XXX
	Coll Trollers XXX
Harrie III	Cash Inflow XXX
y	Cal De la biologia de la companya del la companya de la companya d
(1 s)	Cash Inflow: MPAT + Dep.

6.0-	Charalata Ud. is planning an	=
	investment in new annient The	
	is estment budget of the company	1
	is Ps 2000 The Company has	
	following two investment alternatives	-
		-
	Particulant Year Project A Project B	
	Initial Investment 0 28000 28000	-
(1)	Cash In/1000 1 4000 20000	
	3 8000 16000	
	3 12000 8000	
	4000 4000	
	5 24000 4000	()
	Calculate MPV @ 10-1. Cost of Capital	
	& which project is problable	
	for the company	
ANS !	Imject A Project B	
Year	GCT PV@101. PVCD CD PV@101- PVCD	
- 1	4000 0.909 3636 20000 0.909 18180	
- 3	8000 0.826 6608 16000 0.826 13216	P
	12000 0.751 9012 8000 0.75) 6008	7
9.	18000 0.683 12294 4000 0.683 2732	-
_5	24000 0.621 14904 4000 0.621 2484	
	42,620	
·	NOV & PV of control	
Danis	Nov = brog cs - brog co	
Proje		
Proje	\$ B = 42620 - 28000 = PS 14620	
	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
-	Suggestion = NPV of Project A is	1 NS
	higher than the project B. Hence, it is Suggested that Project A	
	Should be more project A	
	Company.	Pa
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	Internal Rate of Return (DRR)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	IRR is a rate which equated the present
	Value of Cash Inflow with present Value of Cash outflow also ciated with the
	of Cash outflow also ciated with the
	project.
	MPV : Zero
	Accept the project of TRR > Cost of Capital
	Reject the project 1 2PR < Cast of Capital
	Indiplerence IRP = (ast of Capital
	Peject the project if IPP < Cast of Capital  Indifference IPP = (ast of Capital  IRP is the expected compound armual rade
-0-0-	of return that will be earned on a
Ÿ	busiert ar surentuent.
	200 latings DVC3 - PVCO
	JEG Jomes + BACJ - BACD & Widter lone
2	JRP lower + PVC2(1) - PVCO x Phigher lowe  Discound PVC2 - PVC2 Dis - Dis  Rake Rake
6	g >> A company has to consider the following project with the initial outflow of 14 10,000
	project with the initial outlow of by 10,000
	Years (ask Injours (Rs)
	1000
1	2 (000
4	3 2000
4-1-	10,000
	compute the internal rate of return and
<u> </u>	comment on the project if the opportunity
	(ost is 14.1.
	18:0 (alculate the present talue factor
	for the project
COMINIS TRAIN	ACCEPT TO THE PROPERTY OF THE
(8)	Average Annual Cash Infloa
SIBACA	10000 = 2.857
SIBACA	3500

		ent value A			= =
	Tonne Le	ear to 2.857	for 4 year	l in	
	(2.855).	the state of		- X.	
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	TI 410	0			
Year	Cash Inflow	EN BACT	Pv@15-1.	PVCT	
	0	@104-	5,4317	V v = d	/
	1000	0.909 909	0.870	870	/-
3	1 129	0.826 856			
_3_	2000	0.751 - 1509		1316	
4	10000	0.683 6830	0.572	Assessment Control of the Control of	
		10067		8662	
		0	A	M	
	WAN = bh	of CD - PV	0) (0		
	MPV ad 10 4.	= (0067 -	10000 = K		L. C.
	MPV at 15 1	- 2662 -	- 10000 = A	- 1338	
	and the same	WANTER PROPERTY			
100		PVCP	DVCA		_
	IRP = low Dis	+ 011	PVCO X (H	D.R-LD.R	
	Rate	PV CZL -	AACJH		
		10060 - 10	000	1 /- 1214	
-	2 10 1.	+ 10004710	000 x (15-	0)	_
	, y , y	1,10067 8,	663	, A	5-4
		Ca (3/23/	7		<del>- 1</del>
	2101.	+ 67 45	. DA		
		1405	8 2	- 1	1
		2 21 1000	<u>,</u>		+
		,0.341	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	7,000	
	= 110.34	1.		. 171	
		U Attended	Antini Di	<u> </u>	-
	Vo	Whatily In	* - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- * XX B	1 10
	^ -	1		-f :	
-	Le Commenda	ukon 32 As H	re opportunit	У	-
16	Cost of 4	he firm is		mjeck	
- 13	having 7	RR 0/10.23.	1. Should be		-
£-	rejected	IRE	< opp. (ast.	CA.30. 2 F 1	10
	S ADMINISTRA	00001	1-2076		
	SSIMATION	5000			
	SIBACA				
HE LE	SIBACA LONAVALA				
1 11	7.2774				

Vacion.	Prophability Index (PI)
= 1	Tables and the second of the s
	It is also dermed as Benefit - Cast Rako
	Pi is expressed in terms of the rate
	PI is expressed in terms of the ratio
	Cashs.
	pr Present Value of Cash Inflower
	Present Value of Cash outflows
	685,00,37 . P
	Rule. P2>1: The proposal is accepted P2<1: The proposal is rejected
	PI <1: The proposal is rejected
0-71	Pr 1=0:- Indifference.
	THE STATE OF THE S
L 60	A company is approxising two projects
	A company is appraising two projects A & B. Assuming the present value of Judice Cash flower for project A is PS 5000
	Turise Cash flower for project A 15 19 5000
	agume that both projects have an initial
)	Capital investment of PS 4750 each.
	Calculate the Pr for both projects 4
JV.	determine whether or not to invest
a : == ÷	The project.
- P_0	6 He ex un que to to a color of the
	PP of project A. PV of CI 5000 1.05
-1	DV 0/ CO 4750
	The Supposed Ages of the Control of
	PI of Project B - PV of c2 = 4850 1.02
	OV 0) (0 4+30
114	Recommendation is Both projects have a P2>1
	independent. However, if we can only
N. 1	accept one project, we will mast
	a li il in the constant in a line in the constant in the const
+	largest PI (ie. Project A) success auministration
*	TENTAL DOUTLING THE WY IS CIT !
	SIBACA LONAVALA
	MINIS * NOTITION

Cl.	Balknishna Industries Utd. has the tollowing
	investment proposal which requires investment
	of PS 53,00,000 & has following income as
	Cash inflows.
	Year Cash Inflower
	16.00 000
	18,00,000
	3 20,00,000
	4 15,00,000
- 1	15,00,000 - 19
	10,00,000
	Assume cost of capital as 10%. Calculate
	pay-back period. net present value
	Profitability Index
	and a state of the
Year	Cash Inflows Comulative PV Prejent Value
	CD @ 104. ACD
1	16,00,000 16,00,000 0.909 1454400
2	18,00,000 34,00,000 0.826 14,86,800
3	20,00,000 54,00,000 0.751 15,02000
Lp	15,00,000 69,00000 0.683 1024500
5	15,00,000 84,00,000 0.621 931,500
6	10,00,000 94,00,000 0.564 564,000
Xus. ( )	69,69,200
1)	Payhack period - No. of + required Am
	Years Armucel (.)
	2 2 1900,000
	20,00000 SS ADMINISTRAD
1-17	SIBACA SIBACA SIBACA SIBACA
	2-95 Years (5)
	A O V - Dec A as Out A street to the street
2>	NPV = PV of Cl - PV of CO
	= 69,63,200 - 53,00 000 = 16,63,200
	(A survived and 7 Fg Marines)
3)	PI - PV of CI 6963200 [1-313]
	PV of co 5300000
	D .

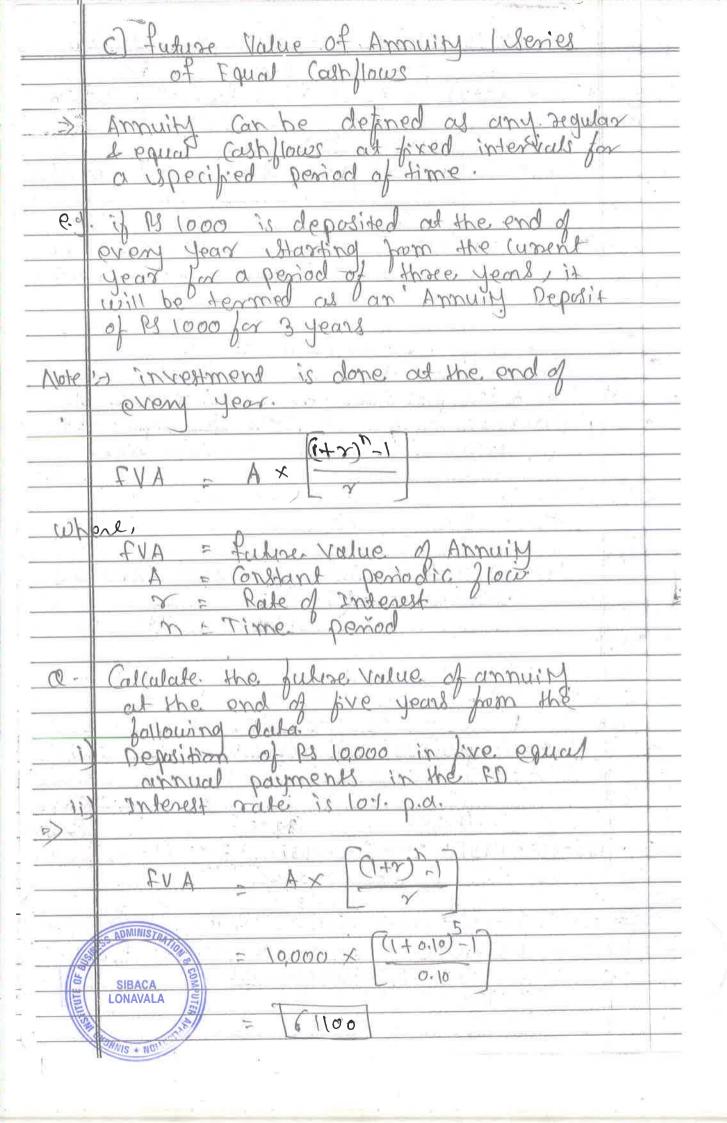
			221
0.2	2 Utd is	examining two m	nuhally
	The data	mparals for new Co	are as follows
	Particulars	Proposal A	proposal B
4		1/10m 270000	30,00,000
2)	0	ue Nil	Nil
. 3)	Experted like	e 6 years	6 years
W	Depresiation	SLM	SLM
5)	EB'DIT		91
	1	650000	975000
	3	725000	1000000
	3'	875000	1100000
- 1	Lp.	950000	1025000
_1	5	9 00 000	9.50000
	6	800000	850000
- 7-1			5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	The Corporate	& income tax rule	is 30%. Callwate
(9		@ 15-1. 3 ARP	
-	Rank the	proposals under e	ach of technique.
- AN		of Payback Pe	nod
[N 4	b) Calculation	of Payback Pe	riod (FAT + Dep)
N4	b) Calculation Year EBDIT	of Payback Pe Project A) Dep EBT Tax	riod (FAT+Dep)
N4_	Jear EBDIT 1 650000	Of Payback Per Project A) Dep EBT Tax 450000 200000 60000	2000 (FAT + Dep) EAT (T) 140000 590000
- A NA	(al(ulahan Year EBD)T 1 650000 3 725000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500	PAT (T) 140000 590000 192500 642500
- A NA	Calculation Vear EBDIT 1 650000 2 725000 3 875000	Of Payback Per Project A)  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500	PAT (T)  N40000 590000  192500 642500  297500 747500
- A VA	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000	CFAT+Dep EAT CT 140000 590000 192500 642500 297500 747500 350000 800000
- A W	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 450000 135000	CFAT+Dep)  EAT CT  140000 590000  192500 642500  297500 747500  350000 800000  315000 765000
	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000	PAT CT 140000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000
	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 450000 135000	CFAT+Dep)  EAT CT  140000 590000  192500 642500  297500 747500  350000 800000  315000 765000
	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000	Of Payback Per Project A)  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 450000 135000  450000 350000 105000	CFAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000
- A VA	Calculation  Year EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000	Of Payback Per Project A)  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 450000 135000  450000 350000 105000	CPAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000
	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 350000 105000  Cumulative. Pr  590000	CPAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000
	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000  Vear CI  1 590000	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 350000 105000  Cumulative. Pr  590000	CPAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000 15,40,000 42,40,000
- A N	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000  Vear CI  1 590000  2 642500	Of Payback Per [Project A]  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 350000 105000  Cumulative. Pr  590000	CPAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000 15,40,000 42,40,000 0.869 513710 0.756 4,85,730 0.657 4,91,108 0.571 456800
- A N	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000  2 642500  4 800000  5 765000	Of Payback Per Priviect A)  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 350000 105000  Cumulative. Pr  590000  1232500  1480000  27,80000  3545000	CPAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000 15,40,000 42,40,000 0.869 513710 0.756 4,85,730 0.657 4,91,108 0.571 456800 0.497 380205
	Calculation  Vear EBDIT  1 650000  2 725000  3 875000  4 950000  5 900000  6 800000  Vear CI  1 590000  2 642500  3 747500  4 800000	Of Payback Per Priviect A)  Dep EBT Tax  450000 200000 60000  450000 275000 82500  450000 425000 127500  450000 500000 150000  450000 350000 105000  Cumulative. Pr  590000  1232500  1980000	CPAT + Dep EAT CT N40000 590000 192500 642500 297500 747500 350000 800000 315000 765000 245000 695000 15,40,000 42,40,000 15,40,000 42,40,000 

Ŋ	Payhaele Period = 3 + 720000 = 3.9 years	
7>	NPV = PV of CZ - PV of CO = 26 26 493 - 2700 800	
	= (73207)	
3>	ARR- Average NPAT Average Investment	
	256667 100 - 19.01-1	
	Project B	
	Payback Peniod = 3 + 397500 = 3.45 years = 867500	
	NPV = 3192727 - 30,00,000 = 192721 APP = 338333 +100 = 22.557.	
	Summen	
1)	Particular Imparal A Proposal B Pay-back Period 3.9 years 3.45 years	
3)	NPV = 73207 192731.  ARP 19.01 1. 22.55 1.	
	Proposal B is better than A in all respects, its pay-back period is lesser as administration	
	than A while ARR is more than A. In case of NPV, Proposal A is showing subscalar regarive next present value while	14
	proposal B is showing positive net	3

T.	11	
		Time Value of Money
		THE TOTAL OF HOLIEG
	6	The money received Loday is worth
1 7	4	more than the same amount of money
		receivable at a Julise date.
7	>>	The Value of a suppe to be received
		in Julie is less than than the value of
-	2	a silpee on hand itoday.
	2	money at present and its value of
		at a Ladire date is referred to as the
		"Time Value of Money"
		11111
	1)	futire Value (compounding Techniques)
	2)	Present Value (Distounting Techniques)
		Charles Carantinal Caranti
-		fahre Value (compounding Concept)
	A)	fahre Value of a lingle Cashflow
	3	fahre Value of uneven Cash flow
	3	Future Value of Armuital ( logical of Founds
	1	Cashylow
	(ران	Lutire Value of Multiple flows.
-	I	A) [.1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	- 1	A) fuluse Value of a Single Cashflow
		fv= Pv(1+x)
	J	ene, FV = fuhire Value, PV = Present Value
		r= Interest Rate, n= Time period after which
		IV is to be ascertained
	70	Calculate FV of PS 5000 at 11.1. after 9 year
ADMINISTA	X-7	Carring to of Formation of the great
	TO STORY	in Calculator, pres.
SIBACA LONAVALA		FV=Pr(1+2) 9 1.11 → X dign →
LUNAVALA	/	= 5000 (1+0.11) new = lign for 8
O PONT	100	= 5000 x (1.11)9 times
-		2 5000 x 2-56=12800
		The state of the s

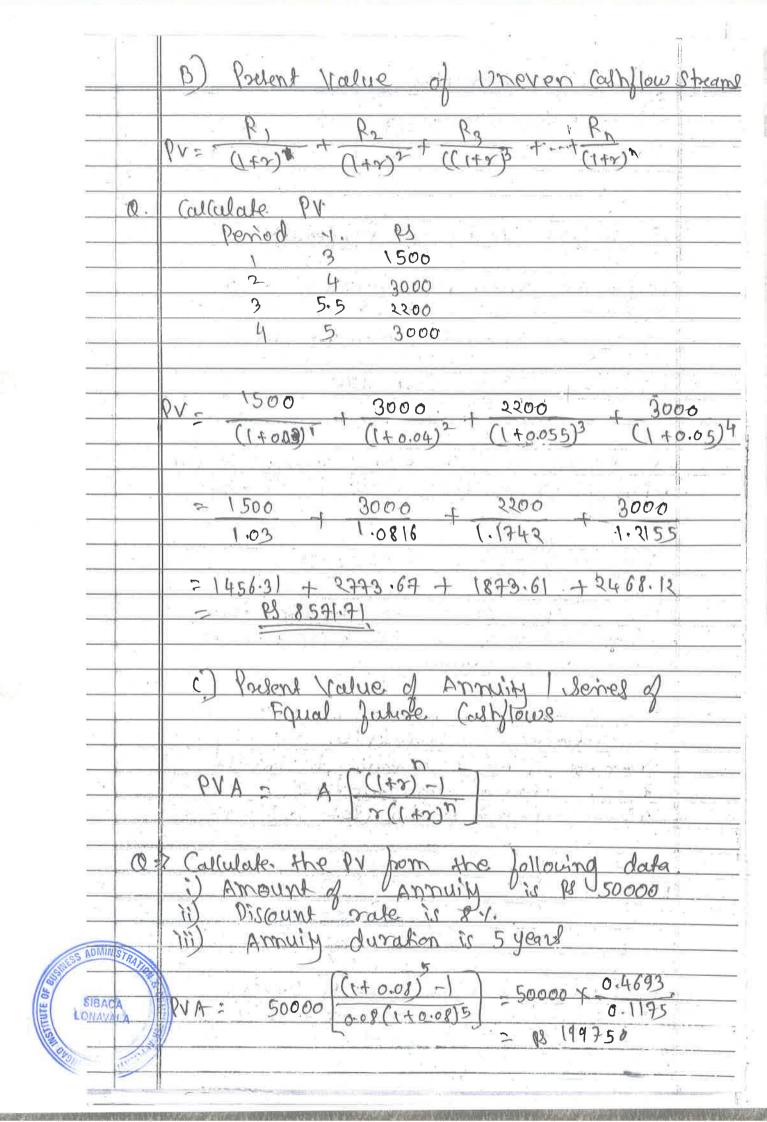
1		, a state of
	Compounding Intervals	
Daily	Annually semi Quarterly monthly weekly	wh
	ammany	
Note =	Joequent Computation will give higher materity Valuation	
	CN 15N = 6 x (1 + 1 ) Uxm	
	m= No. of times of compounding	Q
	Semi Amual m = 2	
1.1	Quarterly, m=4	
- 4	monthly m=12	
Q =	find out fulise value Compound value	
	if Rs 1000 invested @ 12.1. for 6 years	
	on Quarterly compounding torms.	
4.0%	The state of the s	`
	Compound - PV x (1+1) nxm	
	Value	0
	6 x 4	20
	= 1000 × (1+ II)	1
		-
	7.1	
	= 1000 x (1.03)	
- 1 - 2 - 3		
1 - 2 - 3 - 0	= 1000 x 2.033	<del></del>
	=  2033	
	GS ADMINISTRATION	
A	SIBACA SI	
	SIBACA E LONAVALA	
-		
	OPOHNIS * NO.	
		11

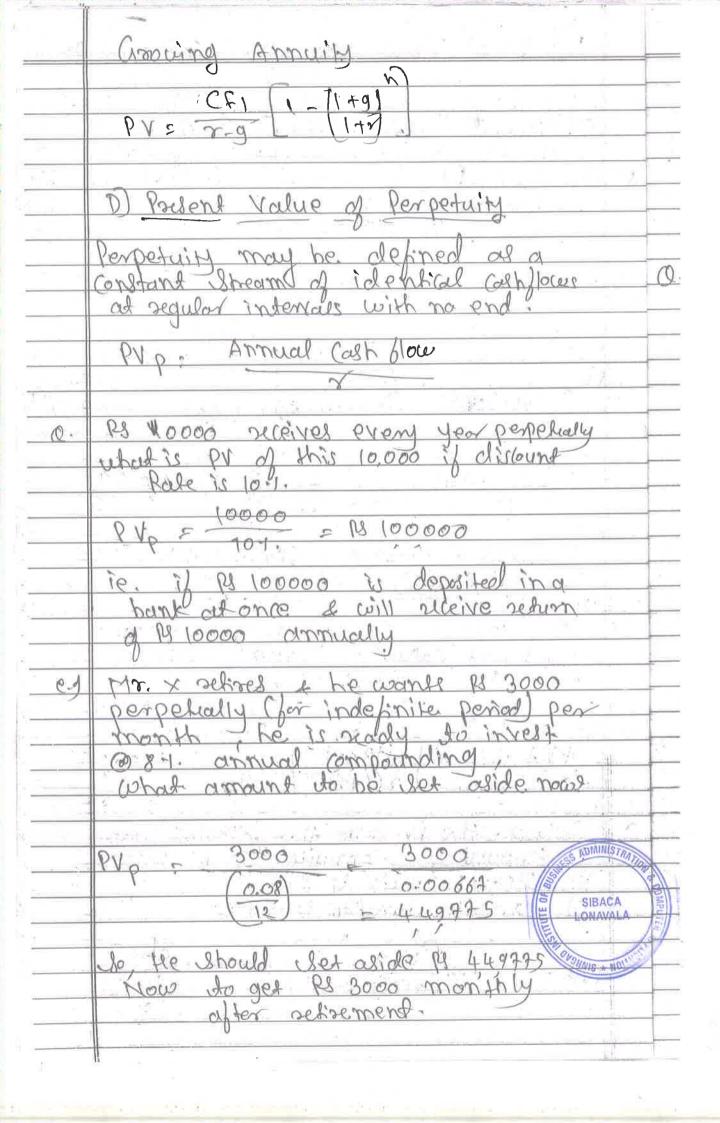
9	9	B) fulise Value of Uneven Cashflow
_		7-3 7-3
15-1		FV= R, (1+x) + R, (1+x) + R, (1+x) + Rn
<del>,</del>	who	FV: fulise Value
		R - Payment Der Compounding period
_		R = Payment per Compounding period.
		In the above formuld, Present Value (PV)
		is replaced with R ( layment per compounding
-		In the above formuld, Present Value (PV) is replaced with R (Payment per Compounding period)
\		The second secon
, 	Q =	Calculate the Judise value of the income
4	- :\	Mr. A is planning to save money to
	- 1	purchase a car & plans to depair the
	-	following Cash low stream each year:
9		
_		1 Pax 1 2 3 4
- 41		P3 1500 3000 3200 3000
150	(ii	Interest rate is g. 1. for 4 years compounded
-		Nemi. annually.
<u> </u>	Solu	
V <del></del>		(n-1)xm (n-2)xm (n-4)xm
	tr	= R, (1+x) + R2 (1+x) + R3 (1+x) + R4 (1+x)
	w	x= (000000000000000000000000000000000000
<u> </u>		r= (ompounded demi annually = 2 0.09
- An		_ 0.045
70	1	(4-1)×2 (4-1)×2
ESS ADMINIS	-	1500 (1+0.045) + 3000 (1+0.045) + 2200 (1+0.045) +
Services 1	100	3000 (1+0.045)
SIBAC		1500 x (1.045) + 3000 (1-045) + 2200 (1.045) + 3000 (1.045
LONAVA	LA JE	1500 x (1.045) + 3000 (1-045) + 2200 (1.045) + 3000 (1.045)
OVOMNIS . NO		1954 + 3578 + 2403 + 355 3000
		- 710934
1383	100	

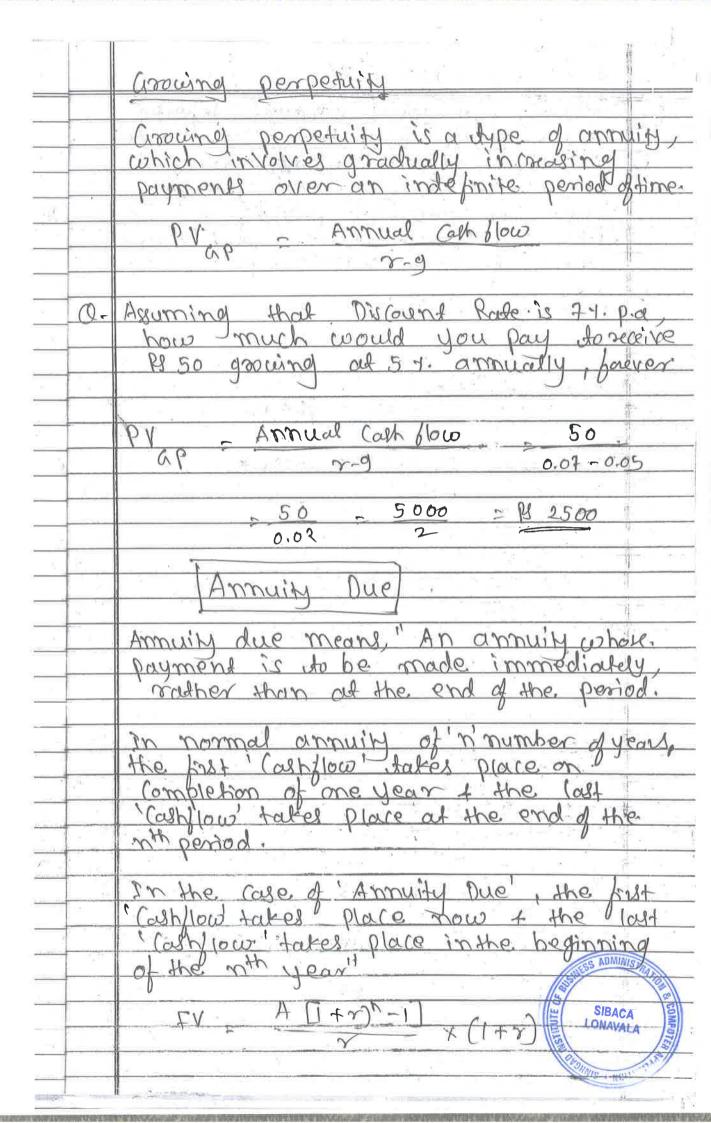


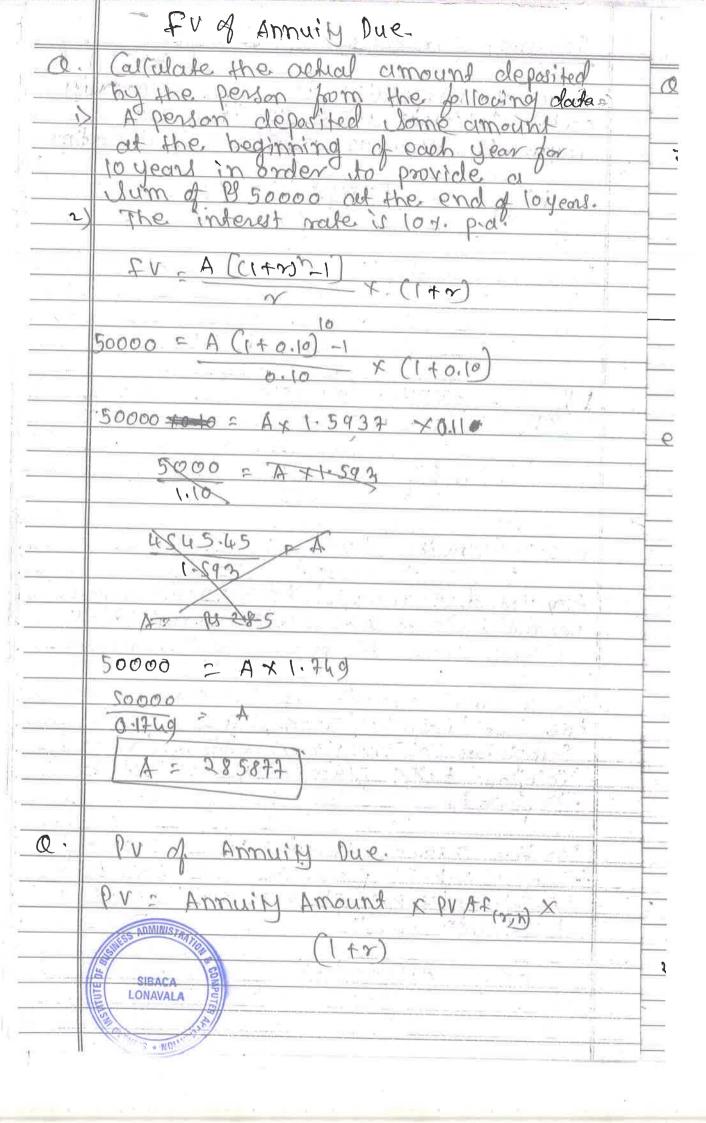
	4	Copping Appuil (il is or ca)
	- X	
		(0+1) - (1+1) x A x A x A y 3
	2	1-9
	- L	where 1=9
	Î(e)	7
		FVA= AXN(I+1)
		0) Future Value of Multiple flows
		( Jame as uneven (orthflows)
-		Calculate the Compound Value at the
		end of the 5th year from the following
		data!
		i) Alok made an investment of \$500
		PS 1000, PS 1500, PS 2000 & PS 2500 at
		ii) The Cashfour to accumulate at
		the end of year 5
		iii) The interest rate 54. & compounded
		annually
	14.	C I I I I I I I I I I I I I I I I I I I
		n-1 n-2 n-3
		Ev= R, (1+2) + R, (1+x) + R3 (1+x) +
J.	1 PS	n-4 n-5
		R, (148) + R, (148).
	10	
		5-1 5-2 5-3
	=	= 500 (1+0.05) +1000 (1+000) + 1500 (1,400) +
		2000 (1400) 5-4 + 2500 (1470.05) 5-5
	-	
2		= 500 × (1.05) + 1000 × (1.05) + 1500 × (1.05) +
MESS ADM	MISTRA	20mo x (1.05) + 300 x (1.05)
	100	= 500 x1.216 + 1000 x 1.158 + 1500 x 1.103 +
LONAL SIBA	CA COMP	2000 x 1.05 + 2500 x 1.103
To the second	3	2000 / 110 ) + 2300 /
WAYS * NO	מייים	= 608 + 1158 + 1654.5 + 2100 + 2500
		7 [8020.50]

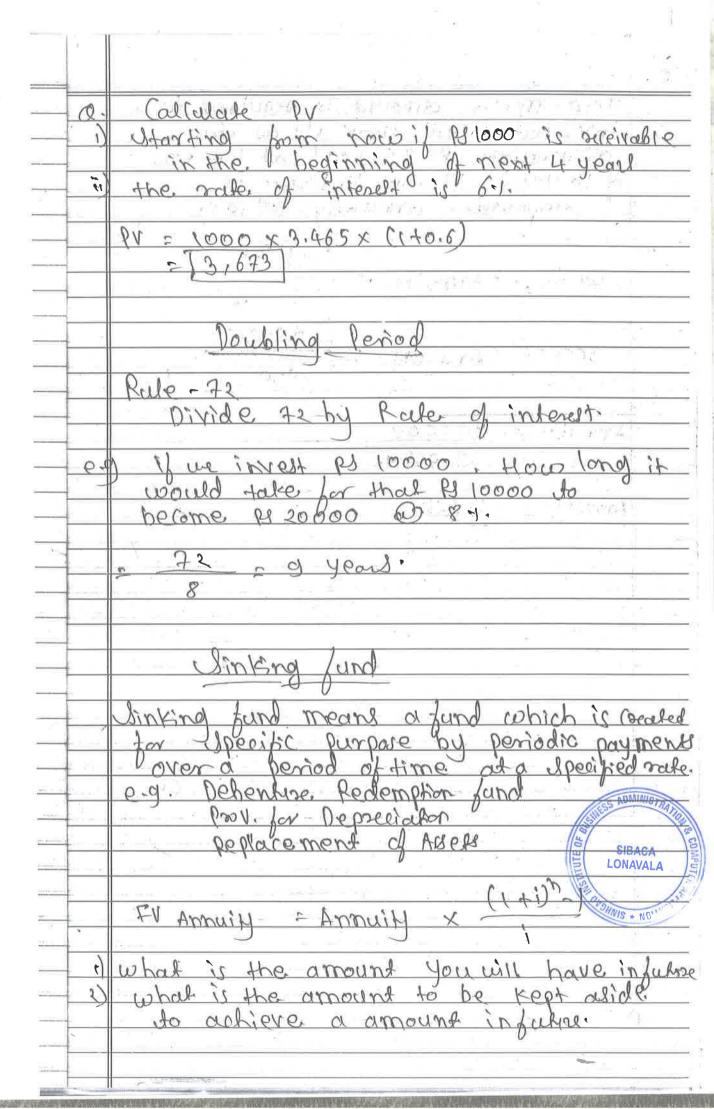
- u		
	Present Value / Discounting Techniques	-
	Discounting is the process of determining the present value of a payment or Stream of payments, which is likely to be received in the Julie.	
	likely to be seteized in the julia.	Q.
	0 5 7	
	$b_{\Lambda} = \frac{(1+x)\nu}{+x}$	
A) B) C)	Present Value of a Single Cashflow Probent Value of Uneven Cashflow Stream Probent Value of Annuity I Sories of Poulant Julie Cashflows Property Property	
	A) Present Value of a single Cashflow	
	$b_{\Lambda} = \frac{(1+5)_{L}}{b_{\Lambda}}$	
Q.	Calculate the Padent Value from the following data.  A) A person will acceive B 3000 after 8 years  B) The discount rate is 10%	
AND	C13h 3000	
-	Dr = fr (1+2)	-
	3000 × (1.10) = 3000	0
v a	= 3000 × 0.4665) = 1399.53	
	= 1399.53 or (1400) App.	
TUTE OF B	SIBACA LONAVALA	
	MIS * NO.	
N.		











0.	
	How much amount is required to be
	invested even year do al its
	accumulate of 3,00,000 - at the end
	d to years if the interest is
	Compounded annually @ 10%.
(3	(1+1)^-1
	RN FV = AMOUNY X
	1 10
	(1+0.10)-)
	300000 : Annuly X
	0.10
	Annuily = 300000
	15-9374.
	Annuiy = 18824
19/10 a	
- Alto	
	transmit wheely
	51980 J. 3130 5209 J.
(5)	AUMINISTRATIO
118	OUDACA SE
TUTE OF	SIBACA ONAVALA
1/2/	
11/10	The Month of the Control of the Cont
	11 7
,	

LONAVAL



A project costs ₹5,00,000 and has a scrap value of ₹1,00,000 after 5 years. The net profit before depreciation and taxes for the five years period are expected to be ₹1,00,000, ₹1,20,000, ₹1,40,000, ₹1,60,000 and ₹2,00,000 respectively. You are required to calculate the accounting rate of return, assuming 50% tax rate and depreciation on straight line method.

[Ans: Profit after deprecation and tax = ₹32,000, ARR = 16%]

Cash inflow and outflow of a project are given below:

Years	Cash Outflow (₹)	Cash Inflow (₹)
0	75,000	
1	15,000	10,000
2	_	15,000
3	-	30,000
4		40,000
5		15,000

The salvage value at the end of 5th year is ₹20,000. The PV factor at 10% discount.

Calculate Net Present Value.

[Ans: Net Present Value = ₹4,430]

PKL LTD's financial manager have to advise the board of directors on choosing between two competing project proposals, which require an equal investment of ₹50,000 and expected to generate cash flows as under:

Years	Project-I (₹)	Project-II (₹)	
1	24,000	10,000	
2	16,000	12,000	
3	10,000	18,000	
4	Nil	24,000	
5	12,000	8,000	
6	6,000	4,000	

Assuming the present value factor @ 10%. Calculate NPV for both the projects.

[Ans: Net Present Value Project I: ₹3,378 Project II: ₹6,136]

The company has under consideration two mutually exclusive proposals for the purchase of new equipment. Assuming the tax rate to be 50% suggest the management the best alternative using P.V. factor at 10%

Particulars	Machine X	Machine Y
Net Cash Outflow (₹)	2,00,000	1,50,000
Scrap Value	Nil	Nil
Life (years)	5	5
Profit before depreciation and tax (PBDT) (₹).		
1st year	50,000	36,000
2nd year	60,000	40,000
3rd year	70,000	44,000
4th year	50,000	40,000
5th year	40,000	32,000

#### Calculate:

- Payback Period
- ii) Net Present Value

[Ans: Payback Period Machine X: 4 years, 1.5 months (Approx.); Machine Y: 4 years, 3.8 months (Approx.); Net Present Value Machine X: -20,915; Machine Y: -20,150]

ABC Ltd. is considering investing in a project requiring a cash outflow of ₹1,00,000. Cost of capital as 10%. Depreciation may be taken as 20% on original cost and taxation at 50% of net earnings. Forecast for annual earning after depreciation but before tax (EADBT) is as follows:

Years	₹
- 1	50,000
2	50,000
3	40,000
4	40,000
5	20,000

#### Calculate:

- Payback method.
- Rate of return method (on initial investment). ii)
- iii) Rate of return method (on average investment).
- iv) Net present value method.

[Ans: Payback Period: 2.25 years; ROR on Initial Investment: 20%; ROR on Average Investment: 40%; NPV: ₹54,065]

PCB Ltd. invests ₹5,000 in a project, which generates the following cash flow in the next 4 years. The firm has a cost of capital of 10%. The cash inflows are as under:

Years	Cash Inflows (₹)
1	1,500
2	2,500
3	2,500
4	2,500

Calculate profitability index.

[Ans: Profitability index (PI): 4.7]

You are given the following information relating to ABCO Ltd. for the year of recent performance of an asset Initial cash outflow ₹1,00,000 SIBACA

Life of the asset 5 years

Estimated annual cash flow ₹25,000

#### Calculate:

- i) Payback period
- ii) **IRR**
- iii) Profitability index (PI)

[Ans: Payback Period: 4 years; IRR: 8.07%, Profitability index (PI): 1.25]

A Project needs a cash outflow of ₹2,77,000. The cost of capital is 12%. The net cash flows are as under:

Years	₹
1	60,000
2	80,000
3	1,20,000
4	60,000
5	40,000

You are required to calculate NPV and IRR. Suggest whether the project should accepted or not and why?

[Ans: Net Present Value = -13,380; IRR = 10% (Approx)]

10) ABC Ltd. is considering two mutually exclusive projects. Both require an initial outlay of ₹1,00,000 each and have a life of 5 years. The company's required rate of return is 10%. The expected cash flows are as follows:

	Years	Project X (₹)	Project Y (₹)
	1	40,000	60,000
١	2	40,000	30,000
	3	40,000	20,000
	4	40,000	50,000
	5	40,000	50.000

Determine the net present value and internal rate of return of each project and indicate which project should be selected and why?

[Ans: Net Present Value Project X: ₹51,600; Project Y: ₹59,540; IRR Project X: 28%(Approx); IRR Project Y: 32%(Approx)]

# SAVITRIBAI PHULE PUNE UNIVERSITY

# MBA - SECOND SEMESTER EXAMINATION, MARCH/APRIL- 2016

# FINANCIAL MANAGEMENT

Time: 21/2 Hours

Max. Marks: 50

Note: 1) All questions are compulsory.

- 2) Each question has an internal option.
- 3) Each question carries 10 marks.
- 4) Figures to the right indicate marks for that question/sub-question.
- 5) Your answers should be specific and to the point.
- 6) Draw neat diagrams and illustrations supportive to your answer.
- 7) Use of simple calculator is permitted.

Ques I a) "Financial Management is something more than an art of accounting and book-keeping." Explain.

Ans: Yes, the statement is true. Financial management is something more than art of accounting and book keeping in the sense that, accounting function discharges the function of recording of transaction relating to the systematic firm transaction in book of account and summarizing the same for presenting in financial statement. Profit and loss A/c, Balance Sheet, Fund Flow and Cash Flow Statements. Financial Management use other method and techniques like capital budgeting, statistical and mathematical models and computer application in decision making to maximize the value of the firm's wealth and value of the owner's wealth. Financial Management is the key function, many firms prefer to centralize the function to keep constant control on the finance of the firm. This can be further explained by the help of the strategies of financial management.

**Key Strategies of Financial Management** 

Refer Unit-1, Page No.18

Ques 1 b) 'A Finance Manager is a person who is responsible in a significant way to carry out the finance functions.' Justify.

Ans: The statement is true. A finance manager is a person who is responsible in a significant way as finance managers perform data analysis and advise senior managers on profitmaximizing ideas.

**Meaning of Finance Manager** 

Refer Unit-1, Page No. 21

**Functions of Financial Managers** 

Refer Unit-1, Page No. 21

Ques 2 a) Following are the summarised Balance Sheet of Abhijit Ltd. as on 31st March, 2014 and 2015. You are required to prepare a Funds Flow Statement for the year ended 31<sup>st</sup> March, 2015.

		Balar	ice Sheet		(10)
Liabilities	₹ 31.3.2014	₹	Assets	₹ 31.3.2014	₹
Share Capital	1,00,000		Goodwill	51.5.2014	31.3.2015 2,500
General Reserve	25,000	30,000	Land and	1,00,000	95,000
Profit and Loss A/c	15,250	15,300	Building Plant and Machinery	75,000	84,500

Long-term Bank Loan	35,000	67,600	Stock	50,000	37,000
Creditors Provision for Tax	75,000 15,000	17,500	Debtors Cash in Hand	40,000 250	32,100 4,300
Total (₹)	2,65,250	2,55,400	Total (₹)	2,65,250	2,55,400

**Additional Information:** 

- Depreciation written-off on Plant and Machinery ₹7,000 and on Land and Building ₹5,000.
- Provision for tax was made during the year ₹16,500.
- iii) Dividend of ₹11,500 was paid.

Ans: Refer Unit-2, Page No. 100

Or

Ques 2 b) The standard ratios for the industry and the ratios of Anand Ltd. are given below. Comment on the financial position of the company compared to industry standards and give suggestions for improvement:

	(10		
Ratio	Industry Standard Ratio	Ratio of Mohit Ltd.	
Current Ratio	2.3	2.6	
Quick Ratio	1.6	1.10	
Inventory Turnover Ratio	6	3	
Average Collection Period	40	45	
Net Profit Ratio	9%	10%	

Ans: Refer Unit-2, Page No. 81

Ques 3 a) i) Explain the importance of Capital Budgeting. (05)

Ans: Importance of Capital Budgeting Refer Unit-5, Page No. 200

Ques 3 a) ii) Charulata Ltd. is planning an investment in new project. The investment budget of the company is ₹2,80,000. The company has following two investment alternatives: 5)

C

Particulars	Year	Project A	Project B
Initial Investment ₹	0	28,000	28,000
Cash Inflows (in ₹)	1	4,000	20,000
	2	8,000	16,000
RAMINISTRATION & COM	3	12,000	8,000
THINDS OF CO.	4	18,000	4,000
	5	24,000	4,000

Compute the Net Present Value at 10% cost of capital and suggest which project is profitable for the company.

Ans: Refer Unit-5, Page No. 210

Or

Ques 3 b) i) Explain the factors influencing Capital Budgeting. (05)

Ans: Factors Influencing Capital Budgeting Refer Unit-5, Page No. 201

Ques 3 b) ii) From the following information you are required to calculate ARR. An investment costing ₹40,00,000 is expected to produce following profits: (05)

Year	₹
1	3,20,000
2	6,40,000
3	7,20,000
4	2,40,000

Ans: Refer Unit-5, Page No. 206

Ques 4 a) A proforma cost sheet of Deepali Company provides the following data: (10)

Cost per Unit	₹
Raw Material	10
Direct Labour	4
Overheads	6
<b>Total Cost</b>	20
Profit	5
Selling Price	25

The following is the additional information available:

Average raw material in stock - one month.

Average works in process - half a month.

Finished goods in stock - on average one month.

Credit allowed to debtors - 2 months.

Credit allowed by suppliers - one months

Time lag in payment of wages - one month.

Time lag in payment of overheads - one month.

Cash balance is expected to be ₹25,000.

You are required to prepare a statement showing working capital needed to finance a level of activity of 40,000 units per Total Cost Approach Method of Working Capital Estimation. You may assume that production is carried on evenly throughout the year and wages and overheads accrue.

Ans: Refer Unit-3, Page No. 125

 $\mathbf{Or}$ 

Ques 4 b) Amey Ltd. is commencing a new project to manufacture a plastic component. The following per unit cost information has been ascertained for annual production of 1 00 000 units.

roduction of 1,00,000 units.	(III
Cost per Unit	₹
Raw Material	40
Direct Labour	15
Overheads (Including Depreciation of ₹5 per Unit)	30
Total Cash Cost	85

**Additional Information:** 

- i) Selling price ₹100 per unit.
- ii) Raw Materials in Stock, average 4 weeks.
- iii) Work-in-progress, average 2 weeks.
- iv) Finished Goods in Stock, average 4 weeks.
- v) Credit allowed to Customers, average 8 weeks.
- vi) Credit allowed by Suppliers, average 4 weeks.
- vii) Lag in Payment of Wages, 1.5 weeks.
- viii) Cash in Hand is expected to be. ₹50.000.

You may assume that production is carried-out on evenly throughout the year (52 weeks) and wages and overheads accrue similarly. All sales are on credit basis only. You are required to prepare a statement showing working capital requirement as per Cash Cost Approach Method of Working Capital Estimation.

Ans: Refer Unit-3, Page No. 128

Ques 5 a) i) Write a note on factors affecting Capital Structure. (05)

Ans: Factors Affecting the Capital Structure Refer Unit-4, Page No. 145

Ques 5 a) ii) Pradnya Ltd. has the following capital structure: (05)

Source	₹
Equity Capital (Expected Dividend 12%)	50,000
10% Preference Shares	25,000
8% Loan	75,000

You are required to calculate the WACC, assuming 50% as the rate of Income Tax, before and after tax.

Ans: Refer Unit-4, Page No. 182

Or

Ques 5 b) i) Write a note on importance of capital structure. (05)

Ans: Importance of Capital Structure Refer Unit-4, Page No. 146

Ques 5 b) ii) Madhuri Ltd. has its books on the following amounts and specific costs of each type of capital: (05)

Type of Capital	Book Value (₹)	Market Value (₹)	Specific Costs (%)
Equity	6,00,000	9,00,000	15
Preference	1,00,000	1,10,000	8
Debt	4,00,000	3,80,000	5
Retained Earnings	2,00,000	3,00,000	13
Total (₹)	13,00,000	16,90,000	

**Determine the WACC using:** 

- i) Book Value Weights,
- ii) Market Value Weights.

Ans: Refer Unit-4, Page No. 185



# SAVITRIBAI PHULE PUNE UNIVERSITY

# MBA - SECOND SEMESTER EXAMINATION, 2017

# FINANCIAL MANAGEMENT

Time: 2.15 Hours

Max. Marks: 50

Note: 1) All questions are compulsory with internal options.

2) All questions carries equal marks.

Ques 1 a) Define financial management. Explain goals of financial management.

Ans: Meaning and Definition of Financial Management Refer Unit 1, Page No. 12

Goals of Financial Management Refer Unit 1, Page No. 12

Or

Ques 1 b) Explain the functions of finance manager in detail and elaborate the relationship of financial management with other functional disciplines.

Ans: Functions of Finance Manager Refer Unit 1, Page No. 21

Relationship of Financial Management with other Functional Disciplines/ Finance and Its Relation with Other Disciplines

Refer Unit 1, Page No. 19

Ques 2 a) Explain various factors affecting capital structure of the organisation.

Ans: Factors Affecting Capital Structure of the Organisation

Refer Unit 4, Page No. 145

Ques 2 b) Calculate Weighted Average Cost of Capital (WACC) from the following. Data of RIL Industries:

Source	(₹) in Lac
Equity share capital [20,000 shares] 16% preference share capital 14% Debentures	40
	10
	30
	80

The company pays dividend at 10%. Compute Weighted Average Cost of Capital (WACC) based of existing Capital structure.

Ans: Refer Unit 4, Page No. 180

Ques 2 a) State the importance of capital structure decisions in detail. (05)

**Ans: Importance of Capital Structure Decisions** Refer Unit 4, Page No. 146

Ques 2 b) Priyadarshini Pvt. Ltd. has following capital

acture;	(0
Sources	7
Equity Capital (Expected Dividend 12%) 10% Preference Capital	10,00,000
8% Loan	15,00,000

Calculate Weighted Average Cost of Capital assuming tax rate of 50% before and after tax.

Ans: Refer Unit 4, Page No. 182

Ques 3 a) From the following balance Sheets prepare fund flow statement and also prepare statement showing changes in working capital.

		Balance			
Liabilities	31/12/94	31/12/95	Assets	31/12/04	31/12/95
Equity Share Capital			Building		1,13,200
Pref. Share Capital	=	10,000	Machinery	1	
General Reserve	6,000	11,000	Furniture	2,400	2,500
Profit and Loss A/C	7,500	20,700	Stock	36,500	38,000
5% Debentures Sundry Creditors	43,500	26,000 48,400	Debtors Bank	32,100 4,800	38,000 4,000
Bank Overdraft	9,800	10,900			
	1,66,800	2,47,000		1,66,800	2,47,000

Adjustment:

Depreciation written off during the year on machinery is ₹12,800 and on furniture is ₹400. (10)

Ans: Refer Unit 2, Page No. 96

Or Ques 3 b) Prepare Balance Sheet on the pasis of following information given in terms of ratios.

Debtors Turnover Ratio - 4

Creditors Turnover Ratio - 6 to purchases

iii) Capital Turnover Ratio - 2 (to sales)

iv) Stock Turnover Ratio - 8 (to cost of sales)

Fixed Asset Turnover Ratio - 8 (to sales)

vi) Gross Profit Ratio - 25%

vii) Gross Profit during the year - ₹1,00,000

viii) Reserves and Surplus - ₹35,000

ix) Closing stock is more by ₹20,000 than opening stock.

There were no long-term liabilities.

xi) All sales are no credit basis.

Prepare Balance Sheet.

Ans: Refer Unit 2, Page No. 79

Find out Payback Period, Net Present Value and Profitability of Index. (10)

Ans: Refer Unit 5, Page No. 217

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Ques 4 b) A leading apparel Mfg. Co, is considering replacement of its existing cutting machine with a new automatic machine to improve the productivity. The cost of new machine is ₹25 lakhs. The cost of the company's capital is 10% the incremental cash flows projected during five years period are estimated as follows:

Year	1	2	3	4	5
Cash Flows (₹ In Lacs)	2.5	5.0	8.0	10.0	12.5
PVF at 10%	0.909	0.826	0.751	0.683	0.621

Comment on the suitability of the project by using NPV and PI. (10)

Ans: Refer Unit 5, Page No. 215

Ques 5 a) From the following projections of XYZ Ltd. for the next year, you are required to work out the Working Capital (WC) required by the company: (10)

	(10)
Annual Sales	₹14,40,000
Cost of Production Including Depreciation	12,00,000
₹1,20,000	
Raw Material Purchases	7,05,000
Monthly Expenses	30,000
Anticipated Opening Stock of Raw Materials	1,40,000
Anticipated Closing Stock of Raw Materials	1,25,000
Inventory Norms:	1,22,000
Raw Materials (Month)	2
Work-in-Progress (Days)	15
Finished Goods (Month)	15

The firm enjoys the credit of 15 days on its purchases, and allows 1 month's credit on its supplies. The company has received an advance of ₹15,000 on sales orders. You may assume that production is carried on evenly throughout the year, and minimum cash balance desired to be maintained is ₹10,000.

Ans: Refer Unit 3, Page No. 125

Or

Ques 5 b) From the following information you are required to estimate the net working capital.

Particulars	Cost per Unit
Raw Material	₹400
Direct Labour	₹150
Overhead (Excluding Depreciation)	₹300
Total Cost	₹850

#### **Additional Information:**

- i) Selling Price: 1000 per unit
- ii) Output: 52,000 units per annum
- iii) Raw Materials in Stock; Average 2 weeks
- iv) Work in Progress (Assume 50% of completion stage with material consumption) Average 2 weeks
- v) Finished Goods in Stock: Average 4 weeks
- vi) Credit Allowed by Suppliers: Average 4 weeks
- vii) Credit Allowed to Debtors: Average 8 weeks
- viii) Cash at Bank: ₹50,000

Assume that production is carried out evenly throughout the year. Assume 52 weeks equal to one year. All sales are on credit basis. (10)

Ans: Refer Unit 3, Page No. 132



# SAVITRIBAI PHULE PUNE UNIVERSITY

# MBA - SECOND SEMESTER EXAMINATION - 2019

# FINANCIAL MANAGEMENT

Time: 2.15 Hours

Max. Marks: 50

Note:

- 1) All questions are compulsory.
- Each question has an internal option.
- Each question carries 10 marks. 3)
- Figures to right indicate marks for that question/sub-question. 4)
- 5) Your answers should be specific and to the point.
- 6) Draw neat diagrams and illustrations supportive to your answer.
- 7) Use of simple calculator is permitted.

Ques 1 a) "The wealth maximising objective is superior to the profit maximisation objective", Explain.

Ans: Wealth Maximization is Superior to Profit Maximization

Refer Unit 1, Page No. 15

Or

Ques 1 b) Describe the finance functions as divided into three broad categories. (10)

Ans: Finance Functions/ Modern Approaches to Financial Management

Refer Unit 1, Page No. 18

Ques 2 a) i) Calculate three leverages from the following data: (05)

Units sold (number)	40,000
Unit Sale Price	₹9
Fixed Cost	₹35,000
Variable Cost per Unit	₹7
8% Debt Capital	₹80,000

Ans: Refer Unit 4, Page No. 193

Ques 2 a) ii) The entire capital structure of a company is provided. Determine the after tax Weighted Average Cost of Capital (WACC), assuming the tax rate of 25%.

Components of Capital	7
Equity Capital (Expected Dividend 11%)	15,00,000
10.5% Preference Shares	10,00,000
9% Debentures	20,00,000

Ans: Refer Unit 4, Page No. 181

Ques 2 b) i) Calculate the Operating, Financial and Combined Leverage from the following information: (05)

Sales	₹60,000
Variable Cost	₹28,000
Interest	₹6,000
Fixed Cost	₹19,000

Ans: Refer Unit 4, Page No. 194

Ques 2 b) ii) Calculate the Weighted Average Cost of Capital (WACC) based on Book Value Weights and Market Value Weights of the company with following capital structure:

Type of Capital	Book Value (₹)	Market Value (₹)	Post Tax Costs%
Equity Preference Shares	10,00,000 4,00,000	14,00,000 4,50,000	14 9
Debt	10,00,000	8,00,000	7

Ans: Refer Unit 4, Page No. 184

Ques 3 a) The following is Balance Sheet as on 31st March 2016 of the company.

Liabilities	₹	Asse	ets	₹
Equity Shares of ₹10 each	6,00,000	Fixed Assets	35,00,000	
Reserve Fund	4,00,000	Less: Depreciation	500000	30,00,000
Profit and Loss A/c	5,00,000	Stock		6,00,000
Long- Term	20,00,000	Debtors		5,00,000
Loans Creditors Other Current Liabilities	4,50,000 2,50,000	Cash		1,00,000
	42,00,000		-	42,00,000

**Additional Information:** 

- i) Profit earned during the year is ₹4,50,000.
- ii) Market Price of Share is ₹500.
- iii) Ignore provisions regarding taxations.

Calculate the following ratios:

Ques 3 a) i) Debt-Equity Ratio.

Ques 3 a) ii) Current Ratio.

Ques 3 a) iii) Acid Test Ratio.

Ques 3 a) iv) Earning per Share.

Ques 3 a) v) Price Earning Ratio.

Ans: Refer Unit 2, Page No. 75



Or

Ques 3 b) The following is summarised Balance Sheet as on 31<sup>st</sup> March 2015 and 2016 of the company. Prepare a schedule of changes in working capital and funds flow statement for the year ended on 31<sup>st</sup> March 2016. (10)

Liabilities	2015	2016	Assets	2015	2016
Share Capital	80,000	90,000	Machinery	26,000	38,000
Profit and Loss A/c	13,000	24,000	Building	45,000	45,000
Long-Term	1,000	5,000	Stock	10,000	7,000
Loans Sundry	8,000	5,000	Sundry	16,000	22,000
Creditors			Debtors Cash in Hand	5,000	12,000
	1,02,000	1,24,000	папо	1,0,2,000	1,24,000

Ans: Refer Unit 2, Page No. 95

Refer Unit 5, Page No. 203

Oues 4 a) i) Despite weaknesses, the payback period thod is popular in practice? Explain. (05)

Ans: Advantages of Payback Period Method Refer Unit 5, Page No. 203 Disadvantages/ Weaknesses of Payback Period Method

Ques 4 a) ii) A company is considering the purchase of a new machine. The cost of machine is ₹22,50,000. The cost cost of company's capital is 10%. The following cash inflows are expected during six year period. The PVF@ 10% is also provided for 6 year period. (05)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cash Flows (₹)	5,35,000	5,86,000	5,59,000	4,80,000	6,14,000	6,37,000
PVF@10 %	0.909	0.826	0.751	0.683	0.621	0.564

Comment on suitability of the project by using NPV and PI. (05)

is: Refer Unit 5, Page No. 215

Or

Ques 4 b) i) Explain the merits and demerits of the time-adjusted methods of evaluating the investment projects. (05)

Ans: Merits/Advantages of NPV, IRR and PI Refer Unit 5, Page No. 209, 211, 214 Demerits/ Disadvantages of NPV, IRR and PI Refer Unit 5, Page No. 209, 212, 214

Ques 4 b) ii) There are two capital investment projects X and Y with initial cost of each is ₹3,00,000. The cash inflows for both projects are given for five year period. (05)

	Year 1	Year 2	Year 3	Year 4	Year 5
Project X (₹)	50,000	70,000	60,000	1,20,000	80,000
Project Y (₹)	60,000	90,000	80,000	60,000	40,000

Appraise the projects based on payback period.

Ans: Refer Unit 5, Page No. 204

Ques 5 a) Prepare a statement showing working capital requirement to finance a level of activity of 10,400 units per year. The cost structure is provided below:

<b>Particulars</b>	Cost/Unit (₹)
Raw Materials	10
Director Labour	5
Overheads	7
Profit	5

#### **Additional Information:**

- i) Average raw material in stock one month.
- ii) Average material in process 2 weeks (assume 50% of completion stage with full material consumption).
- iii) Average finished goods in stock one and half month.
- iv) Credit allowed by suppliers one month.
- v) Credit allowed to debtors one month.
- vi) Time lag in payment of wages 2 weeks.
- vii) Time lag in payment of overheads 1month.
- viii) Cash basis sales 25%.
- ix) Cash balance is expected to be ₹15,000.

The production is carried out evenly throughout the year. (10)

Ans: Refer Unit 3, Page No. 126

 $\mathbf{Or}$ 

Ques 5 b) From the following information prepare a estimated working capital requirement statement—Projected annual sales 31,200 units. Selling Price per unit is 780. (10)

Particular	Cost per Unit as % of Selling Price
Raw Materials	45%
Direct Labour	25%
Overheads	15%

#### **Additional Information:**

- i) Average raw material in stock 3weeks.
- ii) Average work in progress 5weeks (assume 50% of completion stage with full material consumption).
- iii) Average finished goods in stock 2weeks.
- iv) Credit allowed by creditors 4weeks.
- v) Credit allowed to debtors 3weeks.
- vi) Time lag in payment of wages and overheads 2weeks.
- vii) Cash balance is expected to be ₹40,000.
- viii) All sales are on credit basis only.

The production is carried out evenly throughout the year.

Ans: Refer Unit 3, Page No. 127



# UNIT-WISE CLASSIFICATION OF PREVIOUS YEAR QUESTION PAPERS

for Tax

Total

#### UNIT 1

## Second Semester Examination – 2014

"Financial management is nothing managerial decision-making on asset capital mix and profit allocation." Explain.

'Liquidity and profitability are competing goals for the finance manager." Comment.

## **Second Semester Examination – 2015**

"Financial Management is closely related to Economics." Explain.

'The Finance Manager's primary task is to plan 1 b) for acquisition and use of funds so as to maximise the value of the firm." Do you agree with the statement? Comment.

### Second Semester Examination - 2016

"Financial Management is something more than an art of accounting and book-keeping." Explain.

'A Finance Manager is a person who is 1 b) responsible in a significant way to carry out the finance functions.' Justify.

### Second Semester Examination - 2017

1 a) Define financial management. Explain goals of financial management.

1 b) Explain the functions of finance manager in detail and elaborate the relationship of financial management with other functional disciplines.

## **Second Semester Examination – 2018**

1 a) Describe modern approaches to financial management.

1 b) Explain functions of finance manager and key strategies of financial management.

# **Second Semester Examination – 2019**

Ques 1 a) "The wealth maximising objective is superior to the profit maximisation objective", Explain.

Ques 1 b) Describe the finance functions as divided into three broad categories.

### UNIT 2

# Second Semester Examination - 2014

2 a) Following is the summarised Balance Sheet of NDA Ltd. as on 31st March, 2013 and 2014. You are required to prepare a Funds Flow statement for the year ended 31st March, 2014.

Liabilities	₹	7	Assets	₹	3
Share	2,00,000	2,50,000	Goodwill	<u> </u>	5,000
Capital					2,000
General	50,000	60,000	Land and	2,00,000	1 90 000
Reserve			Building	-1001000	1,70,000
Profit and	30,500	30,600		1,50,000	1.69.000
Loss A/c			Machinery	-10.04000	1,02,000
Bank Loan	70,000	1,35,200	Stock	1,00,000	74,000
Creditors	1,50,000		Debtors	80,000	64,200
Provision	30,000	35,000		500	8 600

Balance Sheet

#### Additional Information:

Depreciation written-off on Plant Machinery ₹14,000 and on Land and Building

Hand

500

5,30,500 5,10,800

8,600

- ii) Provision for Tax was made during the year ₹33,000.
- iii) Dividend of ₹23,000 was paid.

5,30,500 5,10,800 Total

2 b) The standard ratios for the industry and the ratios of UPA Ltd. are given below. Comment on the financial position of the company compared to industry standards and give suggestions for improvement.

Ratio	Industry Standard Ratio	Ratio of UPA Ltd.	
Current Ratio	2.4	2.5	
Quick Ratio	1.5	1.07	
Inventory Turnover Ratio	8	4	
Average Collection Period	36	40	
Debt-Equity Ratio	2:1	1.35:1	
Net Profit Ratio	7%	7.7%	
Price to Earnings Ratio	15	4.88	

An investment costing ₹20,00,000 is expected produce following profits:

Year	₹	
1	1,60,000	
2	3,20,000	
3	3,60,000	
4	1,20,000	

# **Second Semester Examination – 2015**

2 a) The ratios of two leading firms in the Heavy Commercial Vehicles (HCV) sector namely; Tetra Motors and Rapid Auto are provided for the year ended on 31st March 2013. Interpret these ratios and comment on the relative financial performance of the companies.

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11.	OVOHNIS * NOTTO	

Ratios	Tetra Motors	Rapid Auto
Current Ratio Quick Ratio Quick Ratio Gross Profit Margin% Net Profit Margin% Total Debt to Equity Fixed Assets Turnover Ratio Inventory Turnover Ratio EPS (₹)	0.62 0.43 4.73 2.26 0.56 1.66 11.54 3.91	0.89 0.47 6.78 4.24 0.82 2.01 6.63 2.13

2 b) From the following balance sheets as on 31<sup>st</sup> March 2012 and 31<sup>st</sup> March 2013 of Dayanand Ltd. You are required to prepare funds flow statement.

Balance Sheet

1 1/2 1/2 1/2		Dalatice Dit			
Liabilities	7		Assets	₹	
	31/03/2012	31/03/2013	E 4 003	31/03/2012	31/03/2013
Equity Capital	3,00,000	4,00,000	Goodwill	1,15,000	90,000
8% Redeemable Pref. Shares	1,50,000	1,00,000	Land and Building	2,00,000	1,70,000
General Reserve	40,000	70,000	Plant	80,000	2,00,000
Profit and Loss A/c	30,000	48,000	Debtors	1,60,000	2,00,000
Proposed Dividend	42,000	50,000	Stock	77,000	1,09,000
Creditors	55,000	83,000	Bills Receivable	20,000	30,000
Bills Payable	20,000	16,000	Cash in Hand	15,000	10,000
Taxation Provision	40,000	50,000	Cash at Bank	10,000	8,000
Total	6,77,000	8,17,000	Total	6,77,000	8,17,000

Following additional information is provided:

- i) Interim Dividend of ₹20,000 has been paid in 2012-13.
- ii) Income Tax paid during the year 2012-13 is ₹35,000.

#### Second Semester Examination – 2016

a) Following are the summarised Balance Sheet of Abhijit Ltd. as on 31<sup>st</sup> March, 2014 and 2015. You are required to prepare a Funds Flow Statement for the year ended 31<sup>st</sup> March, 2015.

**Balance Sheet** 

		AD PROPERTY.	D11000		
Liabilities	₹ 31.3.2014	₹ 31.3.2015	Assets	₹ 31.3.2014	₹ 31.3.2015
Share Capital	1,00,000	1,25,000	Goodwill	-	2,500
General Reserve	25,000	30,000	Land and Building	1,00,000	95,000
Profit and Loss A/c	15,250	15,300	Plant and Machinery	75,000	84,500
Long-term Bank Loan	35,000	67,600	Stock	50,000	37,000
Creditors	75,000	=	Debtors	40,000	32,100
Provision for Tax	15,000	17,500	Cash in Hand	250	4,300
Total (₹)	2,65,250	2,55,400	Total (₹)	2,65,250	2,55,400

#### **Additional Information:**

- i) Depreciation written-off on Plant and Machinery ₹7,000 and on Land and Building ₹5,000.
- ii) Provision for tax was made during the year ₹16,500.
- iii) Dividend of ₹11,500 was paid.

2 b) The standard ratios for the industry and the ratios of Anand Ltd. are given below. Comment on the financial position of the company compared to industry standards and give suggestions for improvement:

Ratio	Industry Standard Ratio	Ratio of Mohit Ltd.
Current Ratio	2.3	2.6
Quick Ratio	1.6	1.10
Inventory Turnover Ratio	6	3
Average Collection Period	40	45
Net Profit Ratio	9%	10%

#### Second Semester Examination – 2017

3 a) From the following balance Sheets prepare fund flow statement and so prepare statement showing changes working capital.

**Balance Sheet** 

Liabilities	31/12/94	31/12/95	Assets	31/12/94	31/12/95
<b>Equity Share Capital</b>	1,00,000	1,20,000	Building	55,400	1,13,200
Pref. Share Capital	277	10,000	Machinery	35,600	51,300
General Reserve	6,000	11,000	Furniture	2,400	2,500
Profit and Loss A/C	7,500	20,700	Stock	36,500	38,000
5% Debentures	===	26,000	Debtors	32,100	38,000
Sundry Creditors	43,500	48,400	Bank	4,800	4,000
Bank Overdraft	9,800	10,900			
<u></u>	1,66,800	2,47,000		1,66,800	2,47,000

Adjustment:

Depreciation written off during the year on machinery is ₹12,800 and on furniture is ₹400.



- 3 b) Prepare Balance Sheet on the basis of following information given in terms of ratios. (10)
  - i) Debtors Turnover Ratio 4
  - ii) Creditors Turnover Ratio 6 (to purchases)
  - iii) Capital Turnover Ratio 2 (to sales)
  - iv) Stock Turnover Ratio 8 (to cost of sales)
  - v) Fixed Asset Turnover Ratio 8 (to sales)
  - vi) Gross Profit Ratio 25%
  - vii) Gross Profit during the year ₹1,00,000
  - viii) Reserves and Surplus ₹35,000
  - ix) Closing stock is more by ₹20,000 than opening stock.
  - x) There were no long-term liabilities.
  - xi) All sales are no credit basis.

Prepare Balance Sheet.

#### Second Semester Examination - 2018

3 a) The following data are extracted from the published accounts of two companies, ABC Ltd. and XYZ Ltd. In an industry.

Particulars	ABC Ltd. (₹)	XYZ Ltd.
Sales	32,00,000	30,00,000
Net Profit after Tax	1,23,000	1,58,000
Equity Capital (₹10per Share Fully Paid)	10,00,000	8,00,000
General Reserves	2,32,000	6,42,000
Long-term Debt	8,00,000	5,60,000
Creditors	3,82,000	5,49,000
Bank Credit (short-term)	60,000	2,00,000
Fixed Assets	15,99,000	15,90,000
Inventories	3,31,000	8,09,000
Other Current Assets	5,44,000	4,52,000

Prepare a statement of comparative ratios showing Liquidity, Profitability, Activity and Financial Position of the two companies.

#### 3 b) Prepare Fund Flow statement.

Liabilities	31/03/2008	31/03/2009	Assets	31/03/2008	31/03/2009
Bank OD Creditors	1,16,000 99,800	55,000 1,19,200	Fixed Assets Addition	62,000	70,000
Prop. Div.	16,000	24,000	Addition	8,000 70,000	17,000 87,000
Debentures P & L	35,200	10,000 48,500	Depreciation	25,000	36,000
General Reserves	26,000	38,000	Net Investment	45,000 10,000	51,000 15,000
Share Capital	75,000	1,00,000	Stock	1,81,500	1,90,000
	3,68,000	3,94,700	Debentures	1,31,500 3,68,000	1,38,700 3,94,700

#### Second Semester Examination - 2019

Ques 3 a) The following is Balance Sheet as on 31st March 2016 of the company.

Liabilities	₹	Assets		₹
Equity Shares of ₹10 each Reserve Fund Profit and Loss A/c Long-Term Loans Creditors Other Current Liabilities	6,00,000 4,00,000 5,00,000 20,00,000 4,50,000 2,50,000 <b>42,00,000</b>	Fixed Assets Less: Depreciation Stock Debtors Cash	35,00,000 500000	30,00,000 6,00,000 5,00,000 1,00,000

#### **Additional Information:**

- i) Profit earned during the year is ₹4,50,000.
- ii) Market Price of Share is ₹500.
- iii) Ignore provisions regarding taxations.

Calculate the following ratios:

Ques 3 a) i) Debt-Equity Ratio.



Ques 3 a) ii) Current Ratio.

Oues 3 a) iii) Acid Test Ratio.

Ques 3 a) iv) Earning per Share.

Ques 3 a) v) Price Earning Ratio.

Ques 3 b) The following is summarised Balance Sheet as on 31<sup>st</sup> March 2015 and 2016 of the company. Prepare a schedule of changes in working capital and funds flow statement for the year ended on 31<sup>st</sup> March 2016. (10)

Liabilities	2015	2016	Assets	2015	2016
Share Capital	80,000	90,000	Machinery	26,000	38,000
Profit and Loss A/c	13,000	24,000	Building	45,000	45,000
Long-Term Loans	1,000	5,000	Stock	10,000	7,000
Sundry Creditors	8,000	5,000	Sundry Debtors	16,000	22,000
•			Cash in Hand	5,000	12,000
	1,02,000	1,24,000		1,0,2,000	1,24,000



#### **UNIT 3**

#### Second Semester Examination - 2014

4 a) A proforma cost sheet of a company provides the following data:

Cost Per Unit	₹
Raw Material	20
Direct Labour	8
Overheads	15
Total Cost	43
Profit	7
Selling Price	50

The following is the additional information Awritable raw material in stock - one month Average works in process - half a month Finished goods in stock - on average one month Credit allowed to debtors - 2 months Credit allowed by suppliers - one month Time lag in payment of wages - one month Time lag in payment of overheads - one month Cash balance is expected to be ₹90,000 You are required to prepare a statement showing working capital needed to finance a level of activity of 52,000 units of output as per Total Approach method of Working Capital Estimation. You may assume that production is carried on evenly throughout the year and wages and overheads accrue.

4 b) Namo Ltd. is commencing a new project to manufacture a plastic component. The following per unit cost information has been ascertained for annual production of 1,04,000 units:

Cost Per Unit	₹
Raw Material	80
Direct Labour	30
Overheads (Including Depreciation of ₹10 per unit)	60
Total Cash Cost	170

#### Additional Information

- i) Selling price ₹200 per unit.
- ii) Raw materials in stock, average 4 weeks.
- iii) Work-in-progress, average 2 weeks.

- iv) Finished goods in stock, average 4 weeks.
- v) Credit allowed to customers, average 8 weeks.
- vi) Credit allowed by suppliers, average 4 weeks.
- vii) Lag in payment of wages, 1.5 weeks.
- viii) Cash in hand is expected to be, ₹25,000.

You may assume that production is carried-out on evenly throughout the year (52 weeks) and wages and overheads accrue similarly. All Sales are on credit basis only. You are required to prepare a statement showing working capital requirement as per Cash Cost Approach method of Working Capital Estimation.

#### Second Semester Examination – 2015

4 a) A proforma cost-sheet of a company provides the following particulars:

Element of Cost	Cost per Unit
Raw Material	80
Direct Labour	30
Overheads	60
Total Cost of Production	170
Profit	30
Selling Price	200

Following further particulars are available:

- i) Raw materials are in stock on an average one month.
- ii) Materials are in process on an average half a month.
- iii) Finished goods are in stock on an average one month.
- iv) Credit allowed by suppliers is one month.
- v) Credit allowed to debtors is two months.
- vi) Lag in payment of wages and overheads are 1 month.
- vii) One fourth of the output is sold against cash.
- viii) Cash on hand and at bank is expected to be \$25,000.

You are required to prepare a statement showing the working capital needed as per total approach method of working capital to finance a level of activity of

60,000 units of production annually. The production is carried-out evenly throughout the year.

4 b) The cost structure of a company's product is

Cost per Unit	1
Raw Material	20
Direct Labour	5
Overheads	15
Total Cost of Production	40
Profit	10
Selling Price	50

- The annual production is 2,40,000 units.
- ii) It is the policy of the company to maintain the stock of raw materials equivalent to one month's production.
- iii) Half a month's production will remain in process throughout the year (Stage of completion 50%).
- iv) The finished goods remain in warehouse on an average for a month.
- v) The company sells its goods on credit and allows two months credit to its customers.
- vi) The suppliers of raw materials provide 3 months credit to the company.
- vii) The period of lag for wages and overheads is one month.
- viii) A minimum cash balance of ₹25,000 is expected to be maintained.

You are required to prepare a statement showing working capital requirement as per cash cost approach method of working capital estimation.

# Second Semester Examination - 2016

4 a) A proforma cost sheet of Deepali Company provides the following data:

Cost per Unit	7
Raw Material	10
Direct Labour	
Overheads	4
Total Cost	6
Profit	20
And the second s	5
Selling Price	25

The following is the additional information available raw material in stock - one month.

Average works in process - half a month.

Finished goods in stock - on average one month.

Credit allowed to debtors - 2 months.

Credit allowed by suppliers - one month.

Time lag in payment of wages - one month.

Time lag in payment of overheads - one month. Cash balance is expected to be ₹25,000.

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You are required to prepare a statement showing working capital needed to finance a level of activity of 40,000 units per Total Cost Approach Method of Working Capital Estimation. You may assume that production is carried on evenly throughout the year and wages and overheads accrue.

4 b) Amey Ltd. is commencing a new project to manufacture a plastic component. The following per unit cost information has been ascertained for annual production of 1,00,000 units.

Cost per Unit	1 -
Raw Material	₹
Direct Labour	40
	15
Overheads (Including Depreciation of ₹5 per Unit) Total Cash Cost	30
- Cost	85

# **Additional Information:**

- Selling price ₹100 per unit.
- Raw Materials in Stock, average 4 weeks. ii)
- iii) Work-in-progress, average 2 weeks.
- iv) Finished Goods in Stock, average 4 weeks.
- Credit allowed to Customers, average 8 weeks.
- vi) Credit allowed by Suppliers, average 4 weeks.
- vii) Lag in Payment of Wages, 1.5 weeks.
- viii) Cash in Hand is expected to be, ₹50,000.

You may assume that production is carried-out on evenly throughout the year (52 weeks) and wages and overheads accrue similarly. All sales are on credit basis only. You are required to prepare a statement showing working capital requirement as per Cash Cost Approach Method of Working Capital Estimation.

# Second Semester Examination - 2017

5 a) From the following information you are required to estimate the net working capital.

Particulars Particulars	Cost Per Unit
Raw Material	400
Director Labour	
Overhead (Cont.)	150
Overhead (Excluding Depreciation)	300
Total Cost	850

Additional Informations

Selling Price Output Raw materials in stock Work in progress (Assume 50% of completion stage with full material consumption)	₹1000 per unit ₹52,000 units per annum Average 4 weeks Average 2 weeks
Finished goods in stock Credit allowed by suppliers Credit allowed to debtors Cash at bank	Average 4 weeks Average 4 weeks Average 8 weeks ₹50,000

Assume that production is carried out evenly throughout the year. Assume 52 weeks equal to one year. All sales are on credit basis.

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5 b) Mithila Industries Ltd. commencing a new project. Following per unit cost information is given. Annual production is 1,00,000 units.

Particulars	Cost Per Unit (₹)
Raw Materials	40
Direct Labour	15
Overheads	25
Depreciation	05
Total Cost	85

#### **Additional Information:**

- i) Selling price is ₹100 per unit.
- ii) Raw materials in stock average 4 weeks.
- iii) Work in progress average 2 weeks. (Assume 50% of completion stage with full material consumption.)
- iv) Finished goods in stock average 4 weeks.
- v) Credit allowed to customers 8 weeks.
- vi) Credit allowed to suppliers average 4 weeks.
- vii) Lag in the payment of wages and overheads 1.5 weeks.
- viii) Cash-in-hand expected to be ₹50,000.

Production is carried out evenly throughout the year (52 weeks) and wages and overheads accrue similarly all sales are on credit basis. Calculate net working capital as per 'Cash Cost Approach Method' of working capital.

#### Second Semester Examination - 2018

5 a) From the following projections of XYZ Ltd. for the next year, you are required to work out the Working Capital (WC) required by the company:

Annual Sales	₹14,40,000
Cost of Production Including Depreciation ₹1,20,000	12,00,000
Raw Material Purchases	7,05,000
Monthly Expenses	30,000
Anticipated Opening Stock of Raw Materials	1,40,000
Anticipated Closing Stock of Raw Materials	1,25,000
Inventory Norms:	
Raw Materials (Month)	2
Work-in-Progress (Days)	15
Finished Goods (Month)	1

The firm enjoys the credit of 15 days on its purchases, and allows 1 month's credit on its supplies. The company has received an advance of ₹15,000 on sales orders. You may assume that production is carried on evenly throughout the year, and minimum cash balance desired to be maintained is ₹10,000.

5 b) From the following information you are required estimate the net working capital.

Particulars	Cost per Unit
Raw Material	₹400
Direct Labour	₹150
Overhead (Excluding Depreciation)	₹300
Total Cost	₹850

#### **Additional Information:**

- i) Selling Price: 1000 per unit
- ii) Output: 52,000 units per annum
- iii) Raw Materials in Stock; Average 2 weeks
- iv) Work in Progress (Assume 50% of completion stage with material consumption) Average 2 weeks
- v) Finished Goods in Stock: Average 4 weeks
- vi) Credit Allowed by Suppliers: Average 4 weeks
- vii) Credit Allowed to Debtors: Average 8 weeks
- viii) Cash at Bank: ₹50,000

Assume that production is carried out evenly throughout the year. Assume 52 weeks equal to one year. All sales are on credit basis.

#### Second Semester Examination - 2019

Ques 5 a) Prepare a statement showing working capital requirement to finance a level of activity of 10,400 units per year. The cost structure is provided below:

Particulars	Cost/Unit (₹)
Raw Materials	10
Director Labour	5
Overheads	7
Profit	5

#### Additional Information:

- i) Average raw material in stock one month.
- ii) Average material in process 2 weeks (assume 50% of completion stage with full material consumption).
- iii) Average finished goods in stock one and half month.
- iv) Credit allowed by suppliers one month.
- v) Credit allowed to debtors one month.
- vi) Time lag in payment of wages 2 weeks.
- vii) Time lag in payment of overheads 1month. viii) Cash basis sales 25%.
- ix) Cash balance is expected to be ₹15,000.

The production is carried out evenly throughout the year.

Ques 5 b) From the following information prepare a estimated working capital requirement statement—Projected annual sales 31,200 units. Selling Price per unit is ₹80.

Particular	Cost per Unit as % of Selling Price	
Raw Materials	45%	
Direct Labour	25%	
Overheads	15%	



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### **Additional Information:**

- Average raw material in stock 3weeks.
- ii) Average work in progress 5weeks (assume 50% of completion stage with full material consumption).
- iii) Average finished goods in stock 2weeks.
- iv) Credit allowed by creditors 4weeks.
- v) Credit allowed to debtors 3weeks.
- vi) Time lag in payment of wages and overheads 2weeks.
- vii) Cash balance is expected to be ₹40,000.
- viii) All sales are on credit basis only.

The production is carried out evenly throughout the year.

### **UNIT 4**

# Second Semester Examination - 2014

- 5 a) i) Write a note on Capital Structure.
- 5 a) ii) Mamta Ltd. has the following capital structure:

Source	3
Equity Capital (Expected dividend 12%)	5,00,000
10% Preference Shares	2,50,000
8% Loan	7,50,000

You are required to calculate the WACC, assuming 50% as the rate of Income Tax, before and after tax.

5 b) ii) Maya Ltd. has its books on the following amounts and specific costs of each type of capital.

Type of Capital	Book Value	Market Value	Specific Costs %
Equity.	3,00,000	4,50,000	
Preference	50,000	55,000	15
Debt	2,00,000	1,90,000	8
Retained Earnings	1,00,000	1,50,000	
Total (₹)	6,50,000	8,45,000	13

Determine the WACC using:

- 1) Book Value Weights
- Market Value Weights

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# Second Semester Examination - 2015

- 5 a) i) A leading company manufacturing cosmetics is in need of a capital for its expansion plans. Which factors do you think are required to be considered for raising the long-term funds to finance the plan?
- 5 a) ii) The entire capital structure of a company is provided alongwith the tax adjusted cost of each component.

  Determine the Weighted Average Cost of Capital (WACC).

Components of Capital	₹	Tax Adjusted Cost of Capital
12% Debentures	30,00,000	
9% Preference Shares		8%
Equity Ct	20,00,000	9%
Equity Shares	50,00,000	14%

5 b) i) State the various assumptions made in capital structure theories.

5 b) ii) Rajaram Ltd. has the following capital structure:

Particulars	Market Values	Book Values	Component Cost %
Equity Capital	80	120	(Post-tax)
Preference Share Capital		120	18
C. 17	30	20	15
Secured Debentures	40	40	14

Calculate Weighted Average Cost of Capital (WACC) of the company based on both book and market values.

# Second Semester Examination - 2016

- 5 a) i) Write a note on factors affecting Capital Structure.
- 5 a) ii) Pradnya Ltd. has the following capital structure:Source

  Equity Capital (Expected Dividend 12%)
  10% Preference Shares
  8% Loan

  50,000
  25,000
  75,000

You are required to calculate the WACC, assuming 50% as the rate of Income Tax, before and after tax.

5 b) i) Write a note on importance of capital 5 b) ii)stMatlmeri Ltd. has its books on the following amounts and specific costs of each type of capital:

Type of Capital	Book Value (₹)	Market Value	Specific Costs (%)
Equity Preference Debt Retained Earnings	6,00,000 1,00,000 4,00,000 2,00,000	9,00,000 1,10,000 3,80,000 3,00,000	15 8 5 13
Total (₹)	13,00,000	16,90,000	

Determine the WACC using:

i) Book Value Weights, ii) Market Value Weights.

# Second Semester Examination - 2017

- 2 a) Explain various factors affecting capital structure of the organisation.
- 2 b) Calculate Weighted Average Cost of Capital (WACC) from the following.

  Data of RIL Industries:

Source	(₹) in Lac
Equity share capital [20,000 shares]	40
16% preference share capital 14% Debentures	10
	30
	80

The company pays dividend at 10%. Compute Weighted Average Cost of Capital (WACC) based of existing capital structure.

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- 2 a) State the importance of capital structure decisions in detail.
- 2 b) Priyadarshini Pvt. Ltd. has following capital structure:

Sources	₹
Equity Capital (Expected Dividend 12%)	10,00,000
10% Preference Capital	5,00,000
8% Loan	15,00,000

Calculate Weighted Average Cost of Capital assuming tax rate of 50% before and after tax.

#### Second Semester Examination - 2018

2 a i) Explain factors affecting capital structure.

2 a ii) Mamta limited has following capital structure:

Source	₹	
Equity Capital (Expected Dividend 12%)	5,00,000	
10% Preference Shares	2,50,000	
8% Loan	7,50,000	

You are required to calculate the WACC, Assuming 50% as the rate of Income tax before and after tax.

2 b i) Explain concept and measurement of cost of capital.

2 b ii) The entire capital structure of a company is provided along with the tax adjusted cost of each component. Determine the WACC.

Source	Amount (₹)	Tax Adjusted Cost of Capital	
12% Debenture	30,00,000	8%	
9% Preference Share Capital	20,00,000	9%	
Equity Shares	50,00,000	14%	

#### Second Semester Examination – 2019

Ques 2 a) i) Calculate three leverages from the following data:

40000
₹9
₹35,000
₹7
₹80,000

Ques 2 a) ii) The entire capital structure of a company is provided. Determine the after tax Weighted Average Cost of Capital (WACC), assuming the tax rate of 25%.

Con	Components of Capital		₹
Equity	Capital	(Expected	15,00,000
Dividend	111%)		
10.5% P	reference Sl	nares	10,00,000
9% Debe	entures		20,00,000

Ques 2 b) i) Calculate the Operating, Financial and Combined Leverage from the following information:

Sales	₹60,000
Variable Cost	₹28,000
Interest	₹6,000
Fixed Cost	₹19,000

Ques 2 b) ii) Calculate the Weighted Average Cost of Capital (WACC) based on Book Value Weights and Market Value Weights of the company with following capital structure:

Type of Capital	Book Value (₹)	Market Value (₹)	Post Tax Costs %
Equity	10,00,000	14,00,000	14
Preference Shares	4,00,000	4,50,000	9
Debt	10,00,000	8,00,000	7

#### **UNIT 5**

#### Second Semester Examination - 2014

- 3 a) i) 'Capital Budgeting decisions are quite critical in nature.' Justify.
- 3 a) ii) Mahendra Ltd. is planning an investment in new project. The investment budget of the company is ₹2,80,000. The company has following two investment alternatives:

Particulars	Year	Project P	Project Q
Initial Investment ₹	0	2,80,000	2,80,000
¹Cash Inflows (in ₹)	1	40,000	2,00,000
	2	80,000	1,60,000
	3	1,20,000	80,000
	4	1,80,000	40,000
	5	2,40,000	40,000

Compute the Net Present Value at 10% cost of capital and suggest which project is profitable for the company.

- 3 b) i) Explain with example the term 'Profitability Index'.
- 3 b ii) From the following information you are required calculate ARR.

An investment costing `20,00,000 is expected produce following profits:

Year	7
1	1,60,000
2	3,20,000
3	3,60,000
4	1,20,000

5 b) i) Write a note on NI Approach.

#### **Second Semester Examination – 2015**

- 3 a) i) What are the different types of capital budgeting decisions?
- 3 a) ii) A leading apparel manufacturing Company is considering a replacement of its existing cutting machine with a new automatic machine to improve the productivity. The cost of new machine is (₹) 25 lac. The cost of the company's capital is 10%. The incremental cashflows projected during five year period are estimated as follows:

	Year 1	Year 2	Year 3	Year 4	Year 5
Cashflows (₹ in Lac)	2.5	5.00	8.00	10.00	12.5
PVF @ 10%	0.909	0.826	0.751	0.683	0.621

Comment on the suitability of the project by using NPV and PL.

3 b) i) Why capital expenditure budget is required for corporate organisations?

3 b)ii) A leading company in the infrastructure contracts is considering a proposal for the purchase of earth moving equipment. The data on the proposal is given below:

Cost of the machine (₹) 30,00,000

Life of the machines 6 years

Depreciation Straight line method

Salvage value (₹) Nil

The estimated cashflows before depreciation and income tax in different years as follows:

MISTRATIO	Year	₹
S AUMINISTRATION &	1	7,50,000
19	2	8,00,000
S CACA.	3	8,50,000
SIBACA LONAVALA	4	10,00,000
The Lor	5	12,00,000
The same of the sa	6	14,00,000
ON OVEHNIS * MI	Total	60,00,000

The corporate tax rate is 30%. You are required to calculate the cashflows after tax but before depreciation and comment on the suitability of the machine bases on pay-back period.

# Second Semester Examination - 2016

3 a) i) Explain the importance of Capital Budgeting.

3 a) ii) Charulata Ltd. is planning an investment in new project. The investment budget of the company is ₹2,80,000. The company has following two investment alternatives:

Particulars	Year	Project A	Project B
Initial Investment ₹	0	28,000	28,000
Cash Inflows (in ₹)	1	4,000	20,000
	2	8,000	16,000
	3	12,000	8,000
	4	18,000	4,000
	5	24,000	4,000

Compute the Net Present Value at 10% cost of capital and suggest which project is profitable for the company.

3 b) i) Explain the factors influencing Capital Budgeting.

3 b) ii) From the following information you are required to calculate ARR. An investment costing ₹40,00,000 is expected to produce following profits:

	1
Year	₹
1	3,20,000
2	6,40,000
3	7,20,000
4	2,40,000

## Second Semester Examination – 2017

4 a) From the following information of Rushi Pvt. Ltd., suggest which of the machine to be purchased.

Expected earnings after tax are given below. Each machine requires investment of ₹4,00,000.

Year	Machine-A Cashflow	Machine - B Cashflow
0	(4,00,000)	(4,00,000)
1	40,000	1,20,000
2	1,20,000	1,60,000
3	1,60,000	2,00,000
4	2,40,000	1,20,000
5	1,60,000	80,000

Cost of capital is 10%. Calculate net present value and profitability index.

4 b) Balkrishna Industries Ltd. has following investment proposal which requires investment of ₹53,00,0000 and has following income as cash inflows.

Year	Cash Inflows
1	16,00,000
2	18,00,000
3	20,00,000
4	15,00,000
5	15,00,000
6	10,00,000

Assume cost of capital as 10%. Calculate payback period, net present value and profitability index.

# **Second Semester Examination – 2018**

4 a) ABC Ltd. is planning investment in new project. The investment of the company is ₹30,00,000. The company has following two alternatives. Assume Cost of Capital at 12%

Particulars	Project A	PV at 12%
1	7,00,000	0.893
2	10,00,000	0.797
3	9,00,000	0.712
4	8,00,000	0.636
5	4,00,000	0.567

Find out Payback Period, Net Present Value and Profitability of Index.

4 b) A leading apparel Mfg. Co. is considering replacement of its existing cutting machine with a new automatic machine to improve the productivity. The cost of new machine is ₹25 lakhs. The cost of the company's capital is 10% the incremental cash flows projected during five years period are estimated as follows:

Year	1	2	2	1	_
Cash Flows (₹ In Lacs)	2.5	5.0	8.0	10.0	12.5
PVF at 10%	0.909	0.826	0.751	0.683	0.621

Comment on the suitability of the project by using NPV and PI.

#### Second Semester Examination – 2019

Ques 4 a) i) Despite weaknesses, the payback period method is popular in practice? Explain.

Ques 4 a) ii) A company is considering the purchase of a new machine. The cost of machine is ₹22,50,000. The cost cost of company's capital is 10%. The following cash inflows are expected during six year period. The PVF@ 10% is also provided for 6 year period.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cash Flows (₹)	5,35,000	5,86,000	5,59,000	4,80,000	6,14,000	6,37,000
PVF@10%	0.909	0.826	0.751	0.683	0.621	0.564

Comment on suitability of the project by using NPV and PI.

Ques 4 b) i) Explain the merits and demerits of the time-adjusted methods of evaluating the investment projects. (05)

Ques 4 b) ii) There are two capital investment projects X and Y with initial cost of each is ₹3,00,000. The cash inflows for both projects are given for five year period.

	Year 1	Year 2	Year 3	Year 4	Year 5
Project X (₹)	50,000	70,000	60,000	1,20,000	80,000
Project Y (₹)	60,000	90,000	80,000	60,000	40,000

Appraise the projects based on payback period.



## MODEL PAPER

# FINANCIAL MANAGEMENT

# MBA - SECOND SEMESTER EXAMINATION

Time: 2 1/2 Hours

Max. Marks: 50

(2 marks each)

Note: 1) All questions shall be compulsory with internal choice within the questions.

2) FIVE questions each carries 10 marks.

3) Figures to the right indicate marks for that question/sub-question.

1) Answer any 5 out of 8:

a) What do you mean by profit maximisation?

b) Define earnings per share.

c) What is operating cycle?

d) Discuss gross working capital.

What is operating leverage? e)

Discuss profitability index.

What do you understand by internal rate of return?

h) Who is finance manager?

Answer any 2 out of 3:

a) Discuss the functions of financial management.

b) Calculate the following ratios:

Gross profit ratio

ii) Net profit ratio

iii) Current ratio

iv) Liquid ratio

v) Proprietary ratio

(5 marks each)

Particulars	₹	Particulars	7
Sales	30,00,000	Fixed assets	15,40,000
Cost of sales	20,00,000		
Net profit	4,00,000	Debts (long-term)	16,40,000
Average inventory	8,00,000	Current liabilities	9,00,000
Other current assets	7,00,000		5,00,000
- direct delicate absorts	7,00,000	Net profit before Tax and Interest	8.00.000

c) From the following particulars, of Sun Pharma Ltd.

Particulars	2018	2017
Revenue from operations Cost of materials consumed Indirect expenses Tax rate	₹10,00,000 60% of revenue from operations	₹6,00,000

Prepare a common size statement of profit and loss.

a) From the following data, compute the duration of the net operating cycle for each of the two years and comment on (10 marks)



Particulars	(in Thousands)		
1 at tictial 5	Year 1 Year 2		
Stocks:			
Raw materials	20	27	
Work-in-progress	14	18	
Finished Goods	21	24	
Purchases	96	135	
Cost of Goods Sold	140	180	
Sales	160	200	
Debtors	32	50	
Creditors	16	18	

Assume 360 days per year for computational purposes.

b) The following are the extracts from the balance sheet of a company as on 31-3-2016. Compute the net working capital required by the company for the year ending 31-3-2017. (10 marks)

Balance Sheet as on 31-03-2016 Particulars **Fixed Assets** 5,00,000 Land and buildings Plant and machinery 3.00,000 8,00,000 **Current Assets** 8,00,000 Stock Debtors 3,00,000 Cash and bank 2,00,000 13,00,000 Less: Current Liabilities Creditors 3,40,000 Taxation 80,000 Bank overdraft 1,40,000 Bills payable 1,60,000 7,20,000 Working Capital 5,80,000 13.80.000

#### **Additional Information**

i) It is estimated that sale will increase by 25% next year.

-1000

- ii) Maximum amount of overdraft that can be availed will be only ₹1,60,000.
- iii) There will be no increase in the liability, due to increase in exports.
- iv) Period of credit allowed to customers and stock turnover will remain unaltered.
- v) Period of credit allowed by creditors and that for bills payable will remain the same.
- vi) There will be no increase in total amount of cash and bank balances.

4) a) Priyadarshini Pvt. Ltd. has following capital structure:

(10 marks)

Sources	₹
Equity Capital (Expected Dividend 12%)	10,00,000
10% Preference Capital	5,00,000
8% Loan	15,00,000

Calculate Weighted Average Cost of Capital assuming tax rate of 50% before and after tax.

#### Or

b) Calculate operating leverage, financial leverage and combined leverage from the following information: (10 marks)

Particulars	X Company Ltd. (₹)	Y Company Ltd. (₹)	
Sales	25,00,000	35,00,000	
Variable Cost	7,00,000	11,00,000	
Fixed Cost	8,00,000	10,00,000	
Interest	3,00,000	4,00,000	

a) A company issues 10% irredeemable debentures of ₹1,00,000. The company is in the 55% tax bracket. Calculate the cost of debt (before and after tax) if the debentures are issued (10 marks)

	`	,
i)	At Par;	ii) 10% discount; and
iii)	10% premium.	

Or

b) Balkrishna Industries Ltd. has following investment proposal which requires investment of ₹53,00,0000 and has following income as cash inflows. (10 marks)

Year	Cash Inflows
10	16,00,000
2	18,00,000
3	20,00,000
4 =	15,00,000
5	15,00,000
6	10,00,000



Assume cost of capital as 10%. Calculate pay-back period, net present value and profitability index.

#### Internal Examination July 2022

#### MBA Semester II

#### Subject - (202) Financial Management

Max Marks 50

Time 2 Hrs

#### Instructions:

- A. All Questions are compulsory (10 marks each)
- B. Each question has an internal option.
- C. Use of simple calculator is permitted.
  - Q.1. 'A Finance Manager is a person who is responsible in a significant way to carry out the finance functions.' Justify. (10)

#### OR

- Q.1. "The wealth maximizing objective is superior to the profit maximization objective". Explain (10)
- Q.2. a) Calculate OL, FL and CL from the following

  A company has sales of Rs. 1.00,000. The variable cost is 40% of the sales while the Fixed operating cost amount to Rs. 30,000. The amount of interest on long term loan Debt is Rs. 10,000.
- b) Calculate Weighted Average Cost of Capital (WACC) from the (5) following based on Book Value Weights and Market Value Weights of the following capital structure and The company pays dividend at 10%.

Sources	Book Value (Rs.)	Market Value (Rs.)	Post Tax Costs %
Equity Share capital	10.00.000	14.00.000	14
Preference share capital	4.00.000	4.50.000	9
Debentures	10.00.000	8.00.000	7

#### OR

#### Q.2. a) Calculate three leverages from the following

(5)

Units sold (number)	50000
Units Sales Price	Rs. 10
Fixed Cost	Rs. 30000
Variable cost per unit	Rs. 6
10% Debt Capital	Rs. 70000



b) The entire capital structure of a company is provided. Calculate Weighted Average Cost of Capital (WACC) before tax and after tax, assuming the tax rate of 25% (5)

Components of Capital	(Rs.)
Equity Share capital (Expected Dividend 11%)	15.00,000
10.5% preference share capital	10,00,000
9% Debentures	20,00,000

Q.3. The standard ratios for the industry and the ratios of Rina Ltd. are given below.

Comment on the financial position of the company compared to industry

Standards and give suggestions for improvement: (10)

Ratios	Industry Standard Ratio	Ratio of Rina Ltd
Current Ratio	2.3	2.6
Quick Ratio	1.06	1.10
Inventory Turnover Ratio	6	3
Average Collection Period	40	45
Net Profit Ratio	9%	10% o

OR

Q.3. From the following balance sheet prepare fund flow statement and also prepare Statement showing changes in working capital. (10)

Statement showing changes in working capital.					(10)
Liabilities	31/03/21	31 03/22	Assets	31/03/21	31/03/22
Equity Share Capital	100000	120000	Building	55400	113200
Pref. Share Capital	177	10000	Machinery	35600	51300
General Reserve	6000	11000	Furniture	2400	2500
Profit & Loss A c	7500	20700	Stock	36500	38000
5 % Debentures		26000	Debtors	32100	38000
Sundry Creditors	43500	48400	Bank	4800	4000
Bank Overdraft	9800	10900			
	166800	247000		166800	247000

Adjustment:- Depreciation written off during the year on machinery is Rs. 12800 and on Furniture is Rs. 400.

Q.4. PQR Ltd. is planning investment in new project. The investment of the company is Rs. 30,00,000. Assume cost of capital at 12%. Find out Payback period, NPV and Profitability Index. (10)

Year	Cash Inflow (Rs.)
1	7,00,000
2	10.00.000
3	9.00,000
4	8.00.000
5	4.00.000



a) What are the factors affecting working capital requirement?

().4.

5) What is NPV?

6) What is Trading on Equity?7) Define Time Value of Money.

b) Write a note on importance of capital structure planning. (5)0.5From the following information prepare a estimated working capital requirement Statement -1) Projected annual sales 31200 units. Selling price per unit is Rs. 80 2) Raw material 45% of Selling price. Direct Labour 25% of selling price. Overheads 15% of selling price 3) Average raw material in stock -3 weeks. 4) Average work in progress – 5 weeks (assume 50% of completion stage with full Material consumption). 5) Average Finished Good in stock – 2 weeks. 6) Credit allowed by creditors – 4 weeks. 7) Credit allowed to Debtors – 3 weeks. 8) Time lag in payment of wages and overheads -2 weeks. 9) Cash balance is expected to be Rs. 40000. 10) All sales are on credit basis only. OR Q.5 Answer any five: (10)1) Define Earning Per Share 2) What is Operating Cycle? 3) What is Gross Working Capital and Net Working Capital? 4) What is Combined Leverage?



(5)

# financial Managemens MBA-I Sem-II 2022-July

# Answer key

Q.1 A france Manager is a person who is responsible in a significant way to Carmy out the france functions. Justify.

ANS: Junctions or hole of france Manager

Paising funds for company

Taking maximum Benefits from leverage

The estment Decision

Bick Management

Fisk Management

Structure

Allo(ation of profit

Francial (british etc.)

SIBACA

OI The Weath maximizing objectives is superior to the profit maximization objective - Explain Ans: > limitations of broket maximising objective OThe profit is an ambiguous & confusing onlept - It has no specific implication of It does not consider the time value

a It also ignored the quality aspect of benefits & returns a sociated with a financial action

(4) In reased profit may often lead to the orgh producing Such products or services which may not be beneficial & useful to society.

(5) It ignores financing & Dividend aspects ompetition will also in rease

Advantaged of Mealth maximising objective of the Joseph of the Joseph firm is to the Joseph of the Marchided or wealth of Shareholded O It also involves Companision of the Value & to Cost also cialled with the firm

- 3) It tates into consider abon time value of money & rick factors of the firm.
- (1) It promotes & improves optimum & efficient utilization of resources
- (3) It aims to achieve & fulfill clonomic obligations of the Society.

$$OL = \frac{C}{EBIT} = \frac{60000}{30000} = 2:1$$

$$FL = \frac{EBT}{EBT} = \frac{30000}{20000} = 1.5.11$$

$$OL = \frac{C}{EBT} = \frac{60000}{20000} = 3:1$$



Determination of WACC Using Book Value Weight

e 93

2) Determination of MACC using Market Value weigh

Sources	Market Value	Meight	Cost of Capital	WACC
Esc	1400000	0.53	14	7.43
229	450000	0.17	9	1.53
Deb	800000	0.30	7	2.10
	26,50000	1.00		11.05 1
	7	0		

0.2 a)

Sales (50000 x 10)

- V.C. (50000 x 6)

Contribution

- fixed (ast 30000

- FBIT 17000

Traderest 7000



b) Determination of WACC Before Tax

-	Capital	Amount	Meigh	Cost of apital	MACC.
9	ESC	15,00,000	0.33	110	3.63
	Psc	(ဝဝဝဝဝ	.0-22	10.5	2-31
	Deb	2000000	0.45	9	4.05
		45,00,000	1.00	4	9.99

Determination of WACC After Tax

Meight Cost of Espital WACE 3.63 Capital Amound 15,00,000 ESC 0.33 PSC 10,00,000 2-31 0.22 10.5 Deb 0.45 6.75 3.04 2000,000

Kd=2(1-d) = 9(1-0.25+) = 9 x 0.75 = 6.75

a) Carrent Ratio = 2:1 => This means the company is liquid I is able to meet its current obligations

> b) Quick Raho = => Std. Ruko = 1:1 => 24 Shows Short-term liquidity Status

c) Inventory Turnover Ratio: => Pina und s inventory is lying idle or over Capitalization of Stock.

5) The Company need to keep proper Control over on the inventory => Need to frame strategies to speed their stock from the company.

d) Avenage Collection Period = 2) Companys Gleckan period is very high So, it is suggested to take initiative to Collect its debts speedily & to lower its duration for Gredit to the Supplier

Net Profit Rako =

Mose than industry Std. Rako

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REP

ROBOT

ROB

# JOR

# Statement of changes in working apital

Particular	31/03/21	31/03/22	1 inwic	VINW.C
A) (urrent Axiets  Stock  Debtors  Bank  Total (Axiets)  Les B) (urrent liabilities  Junday (reditors)	36500 32100 4800 73400 43500	38000 38000 4000 80000 48400	1500	800 4900
Bank Overdoof! Total (unext liabilities	9800	59300		1100
Morking Gpital (care) Net in Grease in Wic	20 100	20700	7400	6800
	20100	20700	7400	7400

# fund flow Statement (for the year ended 31-13-22

	3410 U A		
Jources of funds	PS	Application of funds	PS
I gue of E. shares	20000		28 500
I Dave of Pref. share		Purchase of furniture	
funds from operal		Increase in W. Capital	600
18ue d Debenhus	26000	Purchase of Building	57800
	87400		87400
SIRACA SIRACA	5		2
LONAVALA djusted Profi	t' and	LOB Account	
The state of the s	g	4	
Particulars	PS.	Particulas	by.
10 Depar hur	400	By Bal Bld	7500
To Dep on Mach	12800	By Lunds from	<b>d</b>
70 Tr. to G.R	5000	operation	3/400
TO Bal cld	20700	,	7 7 7
	38 900		38900
	7		

Account Park Culand Particulas Amt To Balance Bld 35600 By Depreciation 12,800 To Bank Acc Bal cld 28500 51300 (Pur) 64100 64100 furniture Acount Parti (way Particulars And Arns To Bal 2400 Dep-400 To Bank (Pur) 500 2500 5000 2900. 7 0.4 year CI PV(D) PV of Cymulativa 12 1/2 CI C.D 700000 0.893 625100 700000 1000000 797000 0.797 1700000 900000 0.712 640800 26,00,000 800000 0.636 508800 3400000 4000000 0.567 226800 31 00 000 2798500 Calculation of layballe - No. of Yeas + Amound R Annua cashinglow 400000

800000



D Calculation MPV = 6h & cI - 6h & co = 2798500 - 30,00,000 3 Calculation Profitability Index = PV of CI = 27,98500 = 10.93 (a) Jactors Affecting Worting Epital Requirement Mature of Business

(b) Mature of Business

(c) Mature of Demand

(d) Production policy

(e) Credit Policy

(f) Dividend Policy

(f) Morting Epital (yelle)

(g) Morting Epital (yelle)

(g) Business period

(g) Price (evel changes)

(g) Effects of External Business Form Effects of External Business Environmental Jack Q4 b) Importance of Epital Structure Planning C: BYA Cost Minimization Investment opportunity Crowth of the Country Value Maximisation Increase in Share Price Patterns of Opital Structure

0.5 Statement Showing working aprital A) (unrend AHels 1) Stock a) RM [31200 × 36 × 37 ] 64800 PM 31200 x 36 x 5 x 100 4. 108000 DL 31200 x 20 x 5 x 50 1. 30000 OHS 31200 x 12 x 52 7504. 18000 156000 81600 2) Debtors 31200 x 68 x 3 122400 3> 40000 Cash Total Current Agels 4.64800 ) Creditors (31200 x 36 x 4) 86400

B) red current liabilities

24000 2) 018 Wagel (31200 x 20 x 2

3): Ols ofth [3/200 × 12 × 5] 114800

Net Morking apital (A-B) 340000 W. Note

Print

RM 36

DL 20

OHS 12

Total Cast 68

+ Profit 12

Selling Price 80

OB

Q.5 Andwer Any fice.

O EPS = Earning Per Share:
Amount Available to Equity share Holder

No. of Equity Shared

@ operating cycle-



Despus Scash PRM

1 Gross working Capital = Total (unent Auels
Net Working Capital = CA - CL

(b) Combined leverage: Contribution EBT

/ \

5) MPV = Net Present value. = PV of CI - PV of CO

(6) Trading on Equity of equity of equity shareholders.

The difference between the Value of money at present and its value at a Juluse date is referred to as the "Time value of Money".

Lit Hay " your



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1) 2)	All q	uren an de right bidicate full n	narke		1
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	4	2 10		<b>~</b>	
Q1) A		the following Multiple Cho		KY	[10]
i)	Fu	nde dre financial resources	in the form	of: S	
	a)1	Corporate capital	b) B	usings Funds	Ş
	(10)	Cash Equivalents	d) A	Kof these	9
ii)	Th	e sum of short term and lo	ng Merm sel	ces of finance is k	now as:
	a)	Capital structure	V b) VB	oth of these	
	-0)	Financial structure	J OP N	one of these	
iii	) Th	e decisions of investigation	long term o	r fixed assets on th	e basis of
	CO	st - benefit analysis wask	-roturn analy	vsis are known as:	0
	a)	Working capital decision	s b) Fi	nancial Decisions	ST.
	(c)	Capital budgeting decision	on d) N	one of these	ide
iv	) Th	e decisions relating to the	use of prof	it or income of an	entia or
	ort	ganization are known.			200
	a)	Finance decinion	4) D	ividend decisions	), 
	c)	Investment decision	d) A	ny of these	
<b>v</b> )	) Th	e concept that value of a ru	pee to be rec	eived in Miture is les	s than the
	va	lue of a rupee on hand toda	y is named a	is what	
362	a)	Recovery factor concep	t b) T	walue of money	2
	c)	Compounding factor co	nceptd) 🥀	one of these	<u>ii</u> (4
V	-	e method of converting the	amount of ve	sh and cash equival	ents value
	in	present is known as:		S. V	
	<b>a</b> )	Compounding	b) 🔏	muity	MESS ADMIA
	e)	Disopunting	d) ×N	one of these	
			Dr.		SIBAC.
			M <sub>AL</sub>		III TO THE PARTY AND THE PARTY

NIS + NOV

- vii) The decisions which are concerned with allocation of funds to the short term investment proposal are known as:
  - a) Capital investment
- Working Capital decisions
- c) Capital budgeting
- None of these
- viii) Through leaverage analysis the financial manager measure the relationship between.
  - a) Cost and earning
- b) Sales revenue and earning
- c) Cost and sales revenue d) Cost sales, revenue and earning

### Q2) Write short notes: (Any 2)

[10]

- a) Financial forecasting.
- b) Factoring.
- c) Operating cycle.
- d) Trading on equity.
- Q3) The following is the Balance Sheet of Global India Pvt. Ltd.., Ahmednagar as on 31st March 2022. [10]

Balance Sheet as on 31.03.2022

Liabilities	Amount	Assets	Amount
Share capital	2.00,000	Land and Building	1,40,000
Profit and loss A/C	30,000	Plant and Machinery	3,50,000
General Reserve	40,000	Stock in Trade	2,00,000
12% Debenture	420,000	Debtors	1,00,000
Creditors	1,00,000	Bills Receivable	19:000
Bills payable	50,000	Bank	\$40,000
Total	8,40,000	Total	8.40.000

#### Calculate:

- 1) Current Ratio.
- 2) Quick Ratio.
- 3) Inventory to working capital.
- 4) Debt to Equity.
- 5) Proprietary Ratio.



OR

2

[5860] - 202

# The following Balance Sheet of Amrish Lim in as follow: Balance Sheet As on 31.03.2022

Liabilities	Amount	Assets	Amount
Equity capital	1,00,0000	Goodwill	5,00,000
6% per share	5,00,000	Plant and Machinery	6,00,000
General Reserve	1,09,000	Land and Building	7,00,000
Profit and loss A	4,00,000	Further	1,00,000
provision for	7,76,000	Inventory	6,00,000
Bills payable	\$ 1,24,000	Bills Receivable	30,000
Bank o/d	20,000	Debtor	1,50,000
Creditors	80,000	Bank	2,00,000
12% Debenture	5,00,000	Short term Investment	20,000
Total	29,00,000	Potal	29,00,000

# Calculate:

- Current Ratio. i)
- Liquid Ratio. ii)
- Current Asset to Fix Asset. iii)
- Debt to Equity. iv)
- Proprietary Ratio. v)
- Swaraj Ltd. is considering investing in a project that is expected to cost Q4) a) ₹ 12,00,000 and has an effective life of 5 year. The projected cash inflow for this period is as follows:

Year	Amount (₹)	2.7
1	3,00,000	- S
2	3,00,000	N. 02.
3	4,50,000	20
4	4,50,000	00 00
5	7,50,000	- 1 Og.
et Preser rofitabili	nt value @10% rate ty Index. OR	e of discount.

#### Calculate:

- i)
- ii)
- iii)



A firm whom 10% is consider in to mutual exclusive proposal. X & Y. a) Then details of which are as follow;

Year	Proposal X	Proposal 'Y'
1	1,00,000	6,50,000
2	2,50,000	6,00,000
3	\$350,000	6,00,000
4	\$5,50,000	5,75,000
8	7,50,000	5,25,000
	h.i	-

Calculate RR of the following proposal X and Y. for an intial investment

Lto has following capital structure. **b**)

[5]

Source V	Amount ₹
Equity capital (Expected divided 12%)	10,00,000
10% preference share	5,00,000
8% loan	15,00,000

Your required to calculate weighted Average cost of capital (WACC) Assuming that 50% as the rate of income Tax.

Calculate weighted average cost of capital from the following. b)

Calculate weighted		0.4
Source of Capital	Book value of capital rupee	Specific cost %
Equity share	23,00,000	11
Preferance share	18,00,000	13
	13,00,000	10
Bank loan	15,00,000	- GN

Q5) The Board of Directors of Sarthak limited request you to prepare a statement showing the working capital requirements for a level of activity of 30,000 units of output for the year.

units of output for The cost structivity level is g	iven below.	y's product f	for the above mention
Particular	Cost per unit (RS)	Q.	2
Raw materials	20	Same of the same o	2/2
Direct labor	5	The same of the same of	2 × 1
Overheads	15	40	S ADMI
Total	40	~	
Profit	10		SIBA
Selling Price	50	1	LONAV



- Past experience indicates that raw materials are held in stock, on an a). average for 2 months.
- Work in progress (100% complete in regard to materials and 50% for b) labour and overhead) will be half a month's production.
- Finished goods are in stock on an average for 1 month. c)
- Credit allowed to supplied 1 month. d)
- Credit allowed to debiors: 2 month. e)
- A minimum each balance of ₹ 25,000 is expected to be maintained. f) Prepare of working capital requirements. [10]

OR

Calculate the working capital requirement of "RJM Ltd,"

Particular	Cost per unit (Rs)		
Raw material	800		
Direct labour	300		
Over heads	600		
Total cost	1700		
Profit	300		
Selling price	2000		

Additional information.

- Output 60,000 units per annum. 1)
- Raw material in stock 1 month. 2)
- 2) Raw material in stock 1 month.

  3) W/P half month (consider 100% Raw material and 50% labour and OH).

  4) Finish goods in stock 1 month.

  5) Credit allowed by suppliers 1 month.

  6) Credit allowed to debtors 2 month.

  7) Delay in payment of wages half month.

  8) Delay in payment of overheads half month.

  Assume that production is carried out evenly throughout a year. All the sales are credit sales.

