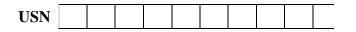
CMR INSTITUTE OF TECHNOLOGY





RBT

L1

L2

[03]

[07]

CO₅

CO₅

Internal Assessment Test – I

Sub:	Financial Management						Code:	22MBA22	
Date:	07.10.2024	Duration:	90 mins	Max Marks:	50	Sem:	II	Branch:	MBA
SET 2									

Marks CO

Part A - Answer Any Two Full Questions (2*20 = 40 marks)

1 (a) What do you understand by Operating Leverage?

Operating leverage is a financial ratio that measures how a company's operating income changes in response to sales volume changes. It is a measure of how much a company can use fixed costs to increase profits as sales increase.

(b) Explain the factors determining the capital structure.

Risk of cash insolvency

Risk of cash insolvency arises due to failure to pay fixed interest liabilities. Generally, the higher proportion of debt in capital structure compels the company to pay higher rate of interest on debt irrespective of the fact that the fund is available or not. The non-payment of interest charges and principal amount in time call for liquidation of the company. The sudden withdrawal of debt funds from the company can cause cash insolvency. This risk factor has an important bearing in determining the capital structure of a company and it can be avoided if the project is financed by issues equity share capital.

Risk in variation of earnings

The higher the debt content in the capital structure of a company, the higher will be the risk of variation in the expected earnings available to equity shareholders. If return on investment on total capital employed (i.e., shareholders' fund plus long-term debt) exceeds the interest rate, the shareholders get a higher return. On the other hand, if interest rate exceeds return on investment, the shareholders may not get any return at all.

Cost of capital

Cost of capital means cost of raising the capital from different sources of funds. It is the price paid for using the capital. A business enterprise should generate enough revenue to meet its cost of capital and finance its future growth. The finance manager should consider the cost of each source of fund while designing the capital structure of a company.

Control

The consideration of retaining control of the business is an important factor in

capital structure decisions. If the existing equity shareholders do not like to dilute the control, they may prefer debt capital to equity capital, as former has no voting rights.

Trading on equity

The use of fixed interest bearing securities along with owner's equity as sources of finance is known as trading on equity. It is an arrangement by which the company aims at increasing the return on equity shares by the use of fixed interest bearing securities (i.e., debenture, preference shares etc.). If the existing capital structure of the company consists mainly of the equity shares, the return on equity shares can be increased by using borrowed capital. This is so because the interest paid on debentures is a deductible expenditure for income tax assessment and the after-tax cost of debenture becomes very low.

Any excess earnings over cost of debt will be added up to the equity shareholders. If the rate of return on total capital employed exceeds the rate of interest on debt capital or rate of dividend on preference share capital, the company is said to be trading on equity.

Government policies

Capital structure is influenced by Government policies, rules and regulations of SEBI and lending policies of financial institutions which change the financial pattern of the company totally. Monetary and fiscal policies of the Government will also affect the capital structure decisions.

Size of the company

Availability of funds is greatly influenced by the size of company. A small company finds it difficult to raise debt capital. The terms of debentures and long-term loans are less favourable to such enterprises. Small companies have to depend more on the equity shares and retained earnings. On the other hand, large companies issue various types of securities despite the fact that they pay less interest because investors consider large companies less risky.

Needs of the investors

While deciding capital structure the financial conditions and psychology of different types of investors will have to be kept in mind. For example, a poor or middle class investor may only be able to invest in equity or preference shares which are usually of small denominations, only a financially sound investor can afford to invest in debentures of higher denominations. A cautious investor who wants his capital to grow will prefer equity shares.

Flexibility

The capital structures of a company should be such that it can raise funds as and when required. Flexibility provides room for expansion, both in terms of lower impact on cost and with no significant rise in risk profile.

Period of finance

The period for which finance is needed also influences the capital structure. When funds are needed for long-term (say 10 years), it should be raised by issuing debentures or preference shares. Funds should be raised by the issue of equity shares when it is needed permanently.

Nature of business

It has great influence in the capital structure of the business, companies having stable and certain earnings prefer debentures or preference shares and companies having no assured income depends on internal resources.

Legal requirements

The finance manager should comply with the legal provisions while designing the capital structure of a company.

Purpose of financing

Capital structure of a company is also affected by the purpose of financing. If the funds are required for manufacturing purposes, the company may procure it from the issue of long- term sources. When the funds are required for non-manufacturing purposes i.e., welfare facilities to workers, like school, hospital etc. the company may procure it from internal sources.

Corporate taxation

When corporate income is subject to taxes, debt financing is favourable. This is so because the dividend payable on equity share capital and preference share capital are not deductible for tax purposes, whereas interest paid on debt is deductible from income and reduces a firm's tax liabilities. The tax saving on interest charges reduces the cost of debt funds. Moreover, a company has to pay tax on the amount distributed as dividend to the equity shareholders. Due to this, total earnings available for both debt holders and stockholders is more when debt capital is used in capital structure. Therefore, if the corporate tax rate is high enough, it is prudent to raise capital by issuing debentures or taking long-term loans from financial institutions.

Cash inflows

The selection of capital structure is also affected by the capacity of the business to generate cash inflows. It analyses solvency position and the ability of the company to meet its charges.

Provision for future

The provision for future requirement of capital is also to be considered while planning the capital structure of a company.

EBIT-EPS analysis

If the level of EBIT is low from HPS point of view, equity is preferable to debt. If the EBIT is high from EPS point of view, debt financing is preferable to equity. If ROI is less than the interest on debt, debt financing decreases ROE. When the ROI

	is more than the interest on debt, de	bt financing increases ROE.			
(c)	Prepare an estimate of working capi	ital requirement from the following:	[10]	CO5	L4
	Particulars Projected annual sales Selling Price % age of net profit on sales Average credit period allowed customers Credit period allowed by supplier Average stock holding Allow 10% for contingencies Solution: Statement of Working Cap	4 weeks 12 weeks			
	Current Assets				
	Debtors (8 Weeks) 600000*8/52	92,308			
	Stock 600000* 12/52	138462			
	Less Current Liabilities:				
	Creditors (4 weeks) 600000* 4/52	46 154			
	Total NWC	184616			
	Add: 10% Contingency	18462			
	Net Working Capital	203078			
2 (a)	project's future cash flow at predet	ent value can be calculated by discounting a fined rates known as cut off rates. However, is discounted at suitable rates using a trial and nt value.		CO3	L1
(b)	Define NI approach in capital str Miller Approach.	ucture and value proposition by Modigliani	[07]	CO5	L2
	relation to the debt-to-equity ratio	yzes a whole firm, and any discount has no . If tax information is provided, it states that in debt financing, and the value of a firm will			
	borrowing money, issuing bonds, their profits in their operations or i	erations and fuel growth and expansion by or obtaining loans. Companies can re-invest ssue new stock shares to investors. Using the liani-Miller theorem argues that a company's justing its leverage.			

The Modigliani-Miller theorem impacted corporate financing, arguing that a company can finance growth by borrowing, issuing stock shares, or reinvesting its profits and that its capital structure is not a factor in its value. The theorem was developed in the 1950s by Merton Miller and Franco Modigliani. (c) CO5 L4 There is an equity share capital of Rs.40 lakhs consisting of 40,000 equity shares [10] of Rs.100 each. The management is planning to raise another Rs.30 lakhs to finance a major program of expansion. It has four possible financing plans: (I) entirely through equity shares (ii) Rs.15 lakhs in equity shares of Rs.100 each and the balance in 8% debentures (iii) Rs.10 lakhs in equity shares of Rs.100 each and the balance through long term borrowing at 9% interest p.a (iv) Rs.15 lakhs in equity shares of Rs.100 each and the balance through preference shares with 5% dividend. The EBIT is Rs.15 lakhs. Tax @50%. Calculate the EPS and comment on the financial leverage. **Solution:** Calculation of EPS and Financial Leverage Financial Plan Financial Plan Financial Plan II III 40+30 = 7040+15=55Equity Shares (₹ in lakhs) 40+10=50 70,000 Equity Shares (Number) 55,000 50,000 8% Debentures (₹ in lakhs) 9% Long-term Borrowings (₹ in lakhs) 20 5% Preference Shares (₹ in lakhs) Earnings before interest and tax (EBIT) ₹ 15,00,000 ₹ 15,00,000 ₹ 15,00,000 Less: Interest on debentures (1,20,000)Interest on long term borrowing (1.80,000)Earnings before tax 15,00,000 13,80,000 13,20,000 Less: Tax @ 50% 7,50,000 6,90,000 Earnings after tax (EAT) 6,60,000 7,50,000 6,90,000 6,60,000 Less: Preference dividend Earnings for equity shareholders 7,50,000 6,90,000 Number of equity shares 6,60,000 70,000 Earnings per shares (EPS) 55,000 50,000 ₹10.71 Degree of Financial Leverage (DFL) 12.55 13.20 1.00 1.087 EBIT 1.136 EBIT-I Comments Since the EPS as well as degree of financial leverage (DFL) is highest in financial planted. The

be accepted. The company should raise ₹ 10 lakhs in equity shares and the balance of ₹ 20

3 (a) Tell the meaning of Net working capital.

[03]

CO4 L1

Net working capital (NWC) is a metric that measures a company's short-term financial health by subtracting its current liabilities from its current assets

(b) Experiment EBIT - EPS relationship with an example. [07]

CO₅ L₃

EPS, of course, largely depends on a company's earnings. For EPS calculation, earnings before interest and taxes (EBIT) is used because it reflects the amount of profit that remains after accounting for those expenses necessary to keep the business going. EBIT is also often referred to as operating income. Example:

Interest Expense: 3.5 crore (50 crore loan x 7% interest rate) Shares remain the same. Assume EBIT remains unchanged. EPS = (20 crore EBIT - 3.5 crore interest) x (1 - 30% tax rate) / 5 million shares = 3.15.

CO4

L4

(c)	The cost sheet of BP Ltd provides the following	owing data: GP 20% on sales.	[10]
	Particulars	Amount in Rs.	
	Sales (3 months credit)	40,00,000	
	Raw material	12,00,000	
	Wages (15 days in arrears)	9,60,000	
	Manufacturing expenses One month	in 12,00,000	
	Administration expenses (one month	in 4,80,000	

Sales promotion expenses (payable half 2,00,000 yearly in advance)

arrears)

The company enjoys one month's credit from suppliers of raw materials and maintains 2 months stock of raw materials and one and a half months finished goods. Cash balance is maintained at Rs.1,00,000 as a precautionary balance. Assume 10% margin, find out the working capital requirements. *Cost of sales for*

debtors and stock of finished goods may be taken at sales minus gross profit. Statement of Working Capital Requirements Current Assets Stock of raw materials $\left(12,00,000\times\frac{2}{12}\right)$ Stock of finished goods at cost $\left(40,00,000\times\frac{80}{100}\times\frac{3}{2}\times\frac{1}{12}\right)$ (as gross profit is 20% on sales, so cost is 80% of sales) Debtors at cost $\left(40,00,000:\frac{80}{100}\times\frac{3}{12}\right)$ Advance payment of sales promotion expenses $\left[2,00,000\times\frac{6}{12}\right]$ Cash balance Less: Current Liabilities: Creditors for raw materials $\left(12,00,000 \times \frac{1}{12}\right)$ 1,00. Wages outstanding (15 days taken for 1/2 months in arrears, 9,60,000 $\times \frac{1}{24}$) 40. Manufacturing expenses outstanding $\left(12,00,000\times\frac{1}{12}\right)$ 1,00, Administration expenses outstanding $\left(4,80,000\times\frac{1}{12}\right)$ 40 Net Working Capital Add: 10% Margin for contingencies Working Capital Required

	Part B - Compulsory (01*10=10 mar	rks)			
4	they are able to give you the following in Particulars Raw material Direct labour Overheads (excluding depreciation) Total Additional information: Selling price Output Raw material in stock Work in progress (assume 50% completion)	importance of working capital. However, information details. Cost per unit (in Rs.) 400 150 300 850 1,000 per unit 52,000 units per annum Average 4 weeks 6 Average 2 weeks			
	Finished goods in stock	Average 4 weeks			
	Credit allowed by suppliers	Average 8 weeks			
	Credit allowed to debtors Cash at bank	Average 8 weeks 50,000			
		ng the 52 weeks of the year. All sales are	[5]	CO4	L4
	Calculate net working capital with 109 1,15,00,000 * 10% = Rs.11,50,000 Total Net Working capital : 1,15,00,00	% contingency	[5]	CO4	L4

Assume production at even pace during the 52 weeks of the year. All sales are on credit basis. Calculate net working capital

Solution:

Statement showing Net Working Capital Requirements

0		
Current Assets	(in Rs.)	(in Rs.)
Stock of R/m 52000*40	00*4/52	16,00,000
Stock of WIP:	8,00,000	
R/m 1600000/2		
Direct labour	(50%) 1,50,000	
52000*150*2/52*50%		
Overheads 52000*300*	*2/52*50% 3,00,000	12,50,000
Stock of FG 52,000* 8	50* 4/52	34,00,000
Debtors at cost 52,000	*850*8/52	68,00,000
Cash at bank		50,000
Total Current Assets		1,31,00,000
Less: Current Liabilitie	es	

Creditors for R/M 52,000*400*4/52 16,00,000 Net Working Capital required 1,15,00,000

Course Outcomes (COs)		PO1	P O 2	PO3	PO4	P O 5	P S O 1	P S O 2	P S O 3	P S O 4
CO1 :	Understand the basic financial concepts									
CO2 :	Apply time value of money									
CO3 :	Evaluate the investment decisions				2(a)					
CO4 :	Estimate working capital requirements					3(a) (c) , 4				
CO5 :	Analyze the capital structure and dividend decisions				1(a),(b) , (c), 3(b)	2(b), (c)				

Cognitive level	KEYWORDS
L1 -	list, define, tell, describe, recite, recall, identify, show, label, tabulate, quote, name, who,
Remember	when, where, etc.
L2 -	describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate interpret,
Understand	discuss
L3 - Apply	calculate, predict, apply, solve, illustrate, use, demonstrate, determine, model, experiment, show, examine, modify
L4 - Analyze	classify, outline, break down, categorize, analyze, diagram, illustrate, infer, select
L5 -	asses, decide, choose, rank, grade, test, measure, defend, recommend, convince, select, judge,
Evaluate	support, conclude, argue, justify, compare, summarize, evaluate
L6 - Create	design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate

PO1–Theoretical Knowledge; PO2–Effective Communication Skills; PO3–Leadership Qualities; PO4 –Sustained Research Orientation; PO5 –Self-Sustaining Entrepreneurship

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