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SUBJECT. : FINANCIAL MANAGEMENT

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UNIT – III

Leverages: Financial Leverage - Operating leverage - EBIT and EPS analysis -

Theories of Capital Structure – Net income approach – Net operating income Approach – The

Traditional approach - Modigliani and Miller (MM) Approach – Determinants of capital

structure- Capitalisation – Over and Under capitalisation - Merits and Demerits.

UNIT - 3

LEVERAGE :

Leverage is an investment strategy of using borrowed money—specifically the use of various financial instruments or borrowed capital—to increase the potential return of an investment. Leverage can also refer to the amount of debt a firm uses to finance assets.

FINANCIAL LEVERAGE

In finance, leverage is any technique involving using debt rather than fresh equity in the purchase of an asset, with the expectation that the after-tax profit to equity holders from the transaction.

A company has a choice of the following two financial plans. you are required			
to calculate the financial leverage. Interest at 10% on debt in all cases.			
particulars	X rs	Y rs	
Equity capital	2,000	1,000	

РВТ	200	100	
EBIT	<u>400</u>	<u>400</u>	
FINANCIAL LEVERAGE :			
PBT	200	100	
Less : interest 10 %	200	300	
Operating profit	400	400	
Particulars	X rs	Y rs	
CALCULATION OF FINANCIAL LEVERAGE			
Operating profit	400	400	
Debt	2,000	3,000	

OPERATING LEVERAGE

Operating leverage is a measure of how revenue growth translates into growth in operating income. It is a measure of leverage, and of how risky, or volatile, a company's operating income.

The installed capacity of a factory is 600 units. Actual capacity used is 400 units. Selling price per unit is $\overline{\mathbf{x}}$ 10 variable cost is $\overline{\mathbf{x}}$ 6 per unit. Calculate the operating leverage in each of the following three situations;

When fixed costs are Rs.400

When fixed costs are Rs.1,000

When fixed costs are Rs.1,200.

STATEMENT SHOWING OPERATING LEVERAGE			
Particulars	Situation 1	Situation 2	Situation 3
Sales (400 x 10)	4,000	4,000	4,000
Less: variable cost (400 x 6)	2,400	2,400	2,400
contribution	1,600	1,600	1,600

Less: fixed cost	400	1000	1200
Operating profit	1200	600	400
Operating leverage = <u>C</u>	<u>1600</u> = 1.33	<u>1600</u> = 2.66	<u>1600</u> = 4
ор	1200	600	400

EBIT EPS ANALYSIS

EBIT-EPS analysis is a technique used to determine the optimal capital structure in which the value of earnings per share (EPS) has the highest amount for a given amount of earnings before interest and taxes (EBIT). In other wordsthe objective of EBIT-EPS analysis is to determine the effect of using different sources of financing on EPS.

A company has the following capital structure. 10,000 equity shares of ₹ 10 each ₹1,00,000. 2000 10% preference shares of ₹ 100 each ₹ 2,00,000. 2000 10% debentures of ₹ 100 each ₹ 2,00,000. Calculate the EPS for each the EBIT i) 1,00,000 ii) 60,000 iii) 40,000 the company in 50% of tax, calculate financial leverage taking EBIT.

CALCULATION OF EPS			
Particulars	EBIT 1	EBIT 2	EBIT 3
EBIT	1,00,000	60,000	1,40,000
Less: Interest on debentures	20,000	20,000	20,000
PBT	80,000	40,000	1,20,000
Less: Income tax at 50%	40,000	20,000	60,000
ΡΑΤ	40,000	20,000	60,000
Less: preference dividend	20,000	20,000	20,000
Earning available for equity	20,000	-	40,000
shareholders			

EPS = <u>EAES</u>	20,000		40,000
No of equity shares	10,000		10,000
EPS	2	NIL	4

THEORIES OF CAPITAL STRUCTURE

Capital Structure means a combination of all long-term sources of finance. It includes Equity Share Capital, Reserves and Surplus, Preference Share capital, Loan, Debentures and other such long-term sources of finance. A company has to decide the proportion in which it should have its own finance and outsider's finance particularly debt finance. Based on the proportion of finance, WACC and Value of a firm are affected. There are four capital structure theories for this, viz. net income, net operating income, traditional and M&M approach.

NET INCOME APPROACH

This approach was suggested by Durand and he was in favor of financial leverage decision. According to him, a change in financial leverage would lead to a change in the cost of capital. In short, if the ratio of debt in the capital structure increases, the weighted average cost of capital decreases and hence the value of the firm increases.

NET OPERATING INCOME APPROACH

This approach is also provided by Durand. It is opposite of the Net Income Approach if there are no taxes. This approach says that the weighted average cost of capital remains constant. It believes in the fact that the market analyses a firm as a whole and discounts at a particular rate which has no relation to debt-equity ratio. If tax information is given, it recommends that with an increase in debt financing WACC reduces and value of the firm will start increasing.

TRADITIONAL APPROACH

This approach does not define hard and fast facts. It says that the cost of capital is a function of the capital structure. The special thing about this approach is that it believes an optimal capital structure.Optimal capital structure implies that at a particular ratio of debt and equity, the cost of capital is minimum and value of the firm is maximum.

MODIGLIANI AND MILLER APPROACH (MM APPROACH)

It is a capital structure theory named after Franco Modigliani and Merton Miller. MM theory proposed two propositions.

Proposition I: It says that the capital structure is irrelevant to the value of a firm. The value of two identical firms would remain the same and value would not affect by the choice of finance adopted to finance the assets. The value of a firm is dependent on the expected future earnings. It is when there are no taxes.

Proposition II: It says that the financial leverage boosts the value of a firm and reduces WACC. It is when tax information is available.

DETERMINANTS OF CAPITAL STRUCTURE

Trading on Equity Desire to Retain Control Size of Company Nature of Business Amount of capital Required Cost of Financing Growth Rate Period of Finance Flexibility Profitability Timing Taxes Attitude of Lenders Purpose of Financing

CAPITALISATION

Capitalisation is combination of owner's capital and borrowed capital. That means, it tells about total fund invested in a company. Share capitals, debentures, loans etc.

OVER CAPITALISATION

In this, profits are not enough to pay interest on debentures and dividends to shareholders over a period of time. That means, amount generated is used to raise capital than required capital, which results decline in rate of returns.

UNDER CAPITALISATION

Company will earn high profit than estimated, which gives additional funds to the company for expansion in form of profits. Goodwill of the company increases and return of capital increases

BOOK REFFERED : 1. Financial Management by S. N. Maheshwari.

2. Management Accounting by R. K. Sharma and Shashi k Gupta