RINANCE

CORPORATION

Definition: A legal form of business organization wherein the firm's owners or stockholders have limited liability.

CORPORATE DECISIONS

- INVESTMENT: What real (physical) assets. should the firm acquire? How much money should be invested in real assets?
- FINANCING: What securities or financial assets should the firm issue? How much money should be raised through the issuance of adversariations?
- DIVIDEND: What poetion of the firm's profits should be easid to stockholders in the form of dividends?
- WORKING CAPITAL: Management of current assets and current liabilities.
- · GOAL OF THE FIRM: To maximize shareholders' wealth or equivalently, to maximize the price of the firm's common stock.

ACCOUNTING STATEMENTS

BALANCE SHEET IDENTITY

Assets = Liabilities + Owners' Equity

INCOME STATEMENT

Station.

- Cost of Goods Sold (COGS)
 - Gross Proffit (GP).
 - Administrative Expenses
 - Depreciation
 - Other Expenses
 - Earnings Before Interests and Taxes (EBIT)
 - Imperest
 - = Earnings before taxes
 - Tarores
 - =Net Income (Net Profit)

STATEMENT OF RETAINED EARNINGS

Beginning Balance Retained Earnings

- + Net Profit
 - Dividends on Preferred Stock
 - Dividends on Common Stock
 - Ending Balance Retained Earnings

STATEMENT OF CASH FLOWS

Cash Flows from Operations

- Cash Flows from Investments
 - + Cash Flows from Financing
 - = Net Increase (or Decrease) in Cash

CASH FLOW IDENTITY

Cash flow from assets =

Sum of the Cash Flow paid to the suppliers of capital to the firm

FINANCIAL RATIOS

LIGUIDITY

Definition: Measure of the firm's ability to meet its short-term obligations.

Current Platio - Current liabilities

Quick Ratio - Cutterd assets - Inventory

Outck Ratio - current liabilities
Net Working Capital current assets - inventory
to Total Assets Ratio

ACTIVITY

Definition: Measure of the firm's efficiency in generating sales with its assets.

Inventory Turnover = Cost of goods sold average inventory

Collection Period = 8000unts receivable credit sales per day

Fixed Asset Turnover - net fixed assets

Total Assets Turnover - total social

LEVERAGE

Definition: Measure of the firm's degree of indebtedness and its ability to meet longterm obligations.

> Debt Ratio - lotal liabilities. Ambell assessed a

Debt to long-term debt Equity Ratio stockholders' equity or equity

Times Interest Earned Ratio - EBIT

Cash Coverage Ratio . EBIT - depreciation

Equity Multiplier Ratio - lotal equity

PROFITABILITY

Definition: Measure of the returns on assets and equity.

Gross Profit Margin a gross profit

Net Profit Marpin - net income

Return on Assets (ROA) = net income total assets

Return on Equity (ROE) * net income

price per share Price / Earnings of common stock (PIE) Patio earnings per share

> earnings available to Earnings per _ common stockholiders share (EPS) rumber of shares of common stock outstanding

Market-to-Book grice per share Planting. book value of common stock per share

Dupont system:

BOE - not profit margin x total asset furneser x equity mintelligation.

RODE = ROA x (1 + debt-to-equity ratio):

TIME VALUE OF MONEY

PRESENT VALUES

- SINGLE AMOUNT: Present Value (PV) of a lump sum (FVm) given at the end of n periods at an interest rate of r %.
- Discounted once per period: PV = PV.
- Discounted "m" times per period: PV = PV. (1+i)
- Discounted Continuously: $PV = FV_n \times e^{\pi n}$ (e = base of natural logarithms)
- ANNUITIES
- · Ordinary Annuity Present value of an ordinary annuity (PVA) of PMT per period for in periods at r % per period;

$$PVA = \sum_{t=1}^{N} \frac{PMT}{(1+t)^{t}} = \frac{PMT}{t} \left[t \cdot \frac{1}{(1+t)^{t}} \right]$$

Annuity Due – Present value of an annuity due (PVD) of n cash flows (PMT) at r % per

 $PVD = \sum_{i} \frac{PMT}{(1-i)^i} \times (1-i) = \frac{PMT}{i} \left[1 \cdot \frac{1}{(1-i)^2}\right] \times (1-i)$

- Perpetuity: Present value of a perpetuity (PVP) of PMT per period at r % per period: pup ... PMT
- SERIES OF CASH FLOWS Present value of a series of cash flows (CF,) at times, t =

$$\mathsf{PV} = \sum_{i=1}^n \frac{\mathsf{CE}_i}{(1+i)^i} = \frac{\mathsf{CE}_i}{(1+i)^i} + \frac{\mathsf{CE}_i}{(1+i)^i} + \dots + \frac{\mathsf{CE}_i}{(1+i)^i}$$

FUTURE VALUES

- SINGLE AMOUNT: Future value at the end of \mathbf{n} periods (\mathbf{FV}_n) of a present amount (\mathbf{PV}) invested today at \mathbf{r} % per period.
- Compounded once per period: FV_n PV(1+r)ⁿ
 Compounded in times per period:

$$FV_n = PV(1 + \frac{n}{m})^{max}$$

- Compounded continuously: FV_m = PVe^{pp}
- ANNUITHES
- Ordinary Annuity Future value at the end of n periods of an ordinary annuity (FVA) of PMT per period for n periods at r % per periodi

· Annuity Due - Future value at the end of m periods of an annuity due of PMT per period at in the periperiod:

SERIES OF CASH FLOWS - Future value at the end of n periods of a series of eash flows, CF_b, at times, t 1,2,...,m $FV = \sum_{i} GF_i (1+\epsilon)^{i+1} -$

CF,(S=0)***CF,(S+0)***...+CF,

EFFECTIVE ANNUAL RATE (EAR)

where m - number of compounding intervals.

ANNUAL PERCENTAGE RATE (APR) APR = rate per period X periods per year

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Peter Fugere

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