B.COM 4TH SEMESTER (HONS+ PROGRAM) MANAGEMENT ACCOUNTING UNIT 5 RATIO ANALYSIS (HONS) UNIT 4 RATIO ANALYSIS (PROG)

Ratio: A ratio is a number expressed in terms of another. A ratio indicates the quantitative relationship between two figures.

Accounting / Financial Ratio: It is a ratio between two accounting figures or data expressing the relationship between the two accounting variable.

Accounting / Financial Ratio analysis: It is an analytical tool used for financial analysis. It is a process of determination and interpretation of the numerical data published by business in periodical statement.

Classification of Ratio:

- 1. On the basis of Source:
 - (i) Balance Sheet Ratio
 - (ii) Revenue Statement Ratio
 - (iii) Mixed Ratio
- 2. On the basis of Purpose/ Economic aspect/ Operation
 - (i) Short term solvency Ratio
 - (ii) Long term solvency Ratio
 - (iii) Efficiency/Turnovers Ratio
 - (iv) Profitability Ratio

Balance Sheet Ratio

1. Current Ratio = <u>Current Assets</u> Current Liabilities

Standard 2:1

2. Quick/ Luquid / Acid Test Ratio =

Current Assets – Inventory – Prepaid Expesses

Current Liabilities – Bank overdraft

Standard 1:1

Current Assets: Stock/Inventory, Trade Receivable (Debtors+ Bills Receivable, Prepaid Expenses, Cash at Bank, Cash in Hand, Accrued Income.

Current Liabilities: Trade Payable (Creditors + Bills Payable) Bank Overdraft, Outstanding Expenses, Proposed dividend, Prov. For Tax.

3. Debt – Equity Ratio =

Long term Debts (Long term loan + Debenture)

Shareholders' Fund

Shareholders' Fund: Equity share capital + Pref, Sh,Capital+ Reserve & Surplus – Fictitious Assets.

4. Fixed Assets – Proprietorship Ratio=

Fixed Assets

Proprietors' Fund

5. Current Assets – Proprietorship Ratio=

Current Assets

Proprietors' Fund

Proprietors' Fund: Equity share capital + Pref, Sh,Capital+ Reserve & Surplus – Fictitious Assets.

6. Capital Gearing Ratio= <u>Fixed charge bearing securities (Pref.Sh+ Debenture)</u> Equity Shareholder' Fund

Equity Shareholder' Fund: Equity share capital + Reserve & Surplus – Fictitious Assets.

7. Cash Position Ratio=

Cash + Cash Equivalent

Total Assets

8. Cash to Current Liabilities Ratio/ Absolute Cash Ratio= Cash + Cash Equivalent

Total Assets

B. Revenue Statement Ratio

1. Gross Profit Ratio=

Gross Profit X 100 Net Sales

2. Net Profit Ratio=

Net Profit X 100 Net Sales

3. Operating Cost Ratio=

Operating Cost X 100 Net Sales

4. Operating Profit Ratio=
Operating Profit X 100
Net Sales

Operating Profit: Net profit + Non operating expenses – Non

operating income. Or

Operating Profit: Sales – Operating Cost.

5. Interest Coverage Ratio=

<u>Earnings before interest and Tax</u>

Annual Interest Charges

C. Mixed Ratio

1. Stock Turnover Ratio=

Cost of Goods Sold
Average Stock

Cost of Goods Sold: Sales – Gross Profit or

Cost of Goods Sold: Op. Stock + Purchase + Carriage- Cl.

Stock.

Average Stock: Op. Stock + Cl. Stock.

2

2. Debtors Turnover Ratio=

<u>Credit Sales</u>

Average Receivable

Average Receivables:

Op. Debtors + Op. B/R+ Cl. Debtors + Cl. B/R

2

3. Creditors Turnover Ratio=

Credit Purchase

Average Payable

Average Payable:

Op. Creditors + Op. B/P+ Cl. Creditors + Cl. B/P

2

4. Total Assets Turnover Ratio=

Cost of Goods Sold

Total Assets

5. Fixed Assets Turnover Ratio=

Cost of Goods Sold

Fixed Assets

6. Capital Turnover Ratio=

Sales

Capital Employed

OR

Cost of Goods Sold

Average Capital Employed

7. Return on Capital Employed=
Profit/Earning before Interest and Tax X 100
Capital Employed

Capital Employed: Fixed Assets + Current Assets- Current

Liabilities **OR**

Capital Employed: Share Capital + Reserve & Surplus

+Debenture – Fictitious Assets.

8. Return On Shareholder Equity=

Net Profit After Tax X 100

Equity/ Owner Fund

9. Debt- Coverage Ratio =

Cash Profit earned before Interest

Interest + Installment Due

10. Earning Per Share =

Earnings Available to Equity Shareholder

Number of Equity Share

11. Price – Earning Ratio =

Market Price Per Share

Earning Per Share

12. Dividend Pay out Ratio =

Dividend Per Share

Earning Per Share

At first read and understand the formula then solve the problem.

The above notes is prepared by Prof. S Ghosh of Commerce Department of Raniganj Girls' College, with the help of books of of Financial Accounting of Amitabha Basu., Dey and Dutta.