

⊗ تقيس حصة كل سهم عادي من الأرباح أثناء الأسهم المفضلة (Preferred) من حاجة تقيس حصصهم لأننا لا نبتة.

⇒ The higher the EPS, the higher the firm's profitability (∴ The better).

5- Market Ratios :-

$$a- \text{Price} \setminus \text{Earning Ratio} = \frac{\text{market Price} \setminus \text{Share}}{\text{EPS}}$$

It measures how much the investors are ready to pay for a specific share in earnings.

⇒ The higher the price \ earning ratio, the better.

$$b- \text{Book Value} \setminus \text{Share (per)} = \frac{\text{Total Common equity}}{\# \text{ of common stocks outstanding}}$$

⊗ Where :- Total common equity = Common stock @ par + APIC + Retained earning.

⇒ The higher the market to book ratio, the better.

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$$1- \text{ Current Ratio} = \frac{\text{Current assets}}{\text{Current liab.}} = \frac{72,000}{69,000} \\ = 1.04 \text{ times .}$$

$$2- \text{ Quick Ratio} = \frac{\text{Current assets} - \text{Inventory}}{\text{current liabilities}} \\ = \frac{72,000 - 45,500}{69,000} = 0.38 \text{ times .}$$

$$3- \text{ Inventory turnover} = \frac{\text{CGS}}{\text{Inventory}} = \frac{106,000}{45,500} \\ = 2.33 \text{ times .}$$

$$4- \text{ Average Age of Inventory (AAI)} = \frac{365}{2.33} \\ = 156.65 \text{ days .}$$

$$5- \text{ Average Collection Period (ACP)} = \frac{\text{A/R} \cdot 365}{\text{Sales}}$$

$$\left(\text{or: } \frac{\text{A/R}}{\text{Av. sales/day}} \right) = \frac{25,000 \times 365}{160,000}$$

$$\Rightarrow \text{ACP} = 57.03 \text{ days .}$$

$$6- \text{Debt Ratio} = \frac{\text{Total liab.}}{\text{Total Assets}} = \frac{69,000 + 22,950}{150,000}$$

$$= 0.613 = 61.3\% \quad (\text{الأمن تكون نسبة})$$

$$7- \text{Time interest earned Ratio} = \frac{\text{EBIT}}{\text{Interest exp.}} = \frac{17,000}{6,100}$$

$$= 2.78 \text{ times}$$

$$8- \text{Gross Profit margin} = \frac{\text{Gross Profit}}{\text{Sales}} = \frac{54,000}{160,000}$$

$$= 0.33 = 33\%$$

$$9- \text{Operating Profit margin} = \frac{\text{Operating Profit}}{\text{Sales}} = \frac{17,000}{18,000}$$

$$= 0.10 = 10\%$$

$$10- \text{Net Profit margin} = \frac{\text{EACS}}{\text{Sales}} = \frac{\text{Net Profit} - \text{Preferred div.}}{\text{Sales}}$$

$$= \frac{6,540 - 0}{160,000} = 0.04 = 4\%$$

$$11- \text{ROA} = \frac{\text{EACS}}{\text{Total Assets}} = \frac{6,450 - 0}{150,000} = 0.04 = 4\%$$

$$12- \text{ROE} = \frac{\text{EACS}}{\text{Total common equity}}$$

$$\begin{aligned} \text{Total common equity} &= \text{Common Stock @ par} + \text{APIC} \\ &\quad + \text{R.E} \\ &= 31,500 + 0 + 26,550 = \$58,050 \end{aligned}$$

$$\Rightarrow \text{ROE} = \frac{6540 - 0}{58,050} = 0.11 = 11\%$$

$$13- \text{Market} \setminus \text{Book value} = \frac{\text{market Price} \setminus \text{share}}$$

$$\text{Book value} \setminus \text{share} = \frac{\text{total common equity}}{\# \text{ of C.S.O}}$$

$$= \frac{58,050}{3000} = \$19.35$$

$$\therefore \Rightarrow \text{Market} \setminus \text{Book ratio} = \frac{25}{19.35} = 1.29$$

(*) # of C.S.O \equiv number of common stocks outstanding

B.S is

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Sales = \$40,000,000

∴ $\frac{32}{40}$

Gross profit margin = 80%

Operating profit margin = 35%

Net profit margin = 8%

ROA = 18%

ROE = 20%

Total Asset turnover = 2 times

ACP = 62.2 days

$$\frac{\text{Gross profit}}{000,000} = 0.8$$

$$\Rightarrow \text{Gross profit} = 32,000,000$$



(b)

b- Cost of Goods Sold (CGS) :-

$$\text{Sales} - \text{CGS} = \text{gross profit}$$

$$40,000,000 - \text{CGS} = 32,000,000$$

$$\Rightarrow \text{CGS} = \$8,000,000$$

c- Operating profit = ??

$$\text{op. profit margin} = \frac{\text{op. profit}}{\text{Sales}} = 0.35$$

$$\Rightarrow \text{Operating profit} = 40,000,000 \times 0.35 = \$14,000,000$$

d- Operating expenses = ??

$$\text{Op. profit} = \text{gross profit} - \text{op. exp.}$$

$$\Rightarrow \text{operating expenses} = \$18,000,000$$

e- EACS = ??

$$\text{Net profit margin} = \frac{\text{EACS}}{\text{Sales}} = 0.08$$

$$\Rightarrow \text{EACS} = 40,000,000 \times 0.08$$

$$\text{EACS} = \$3,200,000$$

f- Total Assets = ??

$$\text{total assets turnover} = \frac{\text{Sales}}{\text{Total Assets}} = 2$$

$$\Rightarrow \text{Total Assets} = \frac{40,000,000}{2} = \$20,000,000$$

g- Total common equity = ??

$$\text{ROE} = \frac{\text{EACS}}{\text{Total Common equity}} = 0.2$$

$$\Rightarrow \text{Total common equity} = \frac{3,200,000}{0.2}$$

$$= \$16,000,000$$

h- Account Receivables ?? (A/R)

$$\text{ACP} = \frac{\text{A/R}}{\text{Av. sales/day}} = 62.2$$

$$\Rightarrow \text{A/R} = 62.2 \times \frac{40,000,000}{365}$$

$$\text{A/R} = \$6,816,438.356$$