## 5. Interpretation of Accounts

(100)

(8)

(8)

- (a) You are required to calculate the following for 2016: (where appropriate calculations should be made to **two** decimal places.)
  - (i) Cash Sales if the average period of credit given to debtors is 1.5 months. (10)

Average period of credit given to debtors

$$= \frac{\text{Debtors}}{\text{Credit Sales}} \times \frac{12}{1} = 1.5$$

⇒ Credit Sales

$$= \frac{\text{Debtors} \times 12}{1.5} = \frac{45,000 \text{ (2)} \times 12 \text{ (2)}}{1.5 \text{ (1)}}$$

$$= \frac{45,000 \text{ (2)} \times 12 \text{ (2)}}{1.5 \text{ (1)}}$$

⇒ Cash Sales

(ii) Return on Capital Employed.

$$\frac{\text{Net Profit + Debenture Interest}}{\text{Capital Employed}} \times \frac{100}{1} = \frac{62,000 \text{ (1)} + ^{\bullet}20,000 \text{ (2)}}{995,000 \text{ (2)}} \times \frac{100}{1} \text{ (1)}$$

$$= 8.24\% \text{ (2)}$$

- Must use figure for 'Interest Paid' (€20,000) and not calculate interest (8% of €250,000).
- (iii) Interest Cover

$$\frac{\text{Net Profit before Interest}}{\text{Interest}} = \frac{62,000 \text{ (2)} + 20,000 \text{ (2)}}{20,000 \text{ (2)}}$$

$$= \frac{4 \cdot 1 \text{ times (2)}}{20,000 \text{ (2)}}$$

- Must use figure for 'Interest Paid' (€20,000) and not calculate interest (8% of €250,000).
- (iv) Dividend Yield.

Dividend per Share
$$= \frac{\text{Total Ordinary Dividends}}{\text{Number of Ordinary Shares Issued}} = \frac{40,000 \text{ (1)} - 5,000 \text{ (2)}}{550,000 \text{ (2)}}$$

$$= \frac{6.36 \text{ cent (1)}}{6.36 \text{ cent (1)}}$$

⇒ Dividend Yield

$$= \frac{\text{Dividend per Share}}{\text{Market Price per Share}} \times \frac{100}{1} = \frac{6.36 \text{ (1)}}{135 \text{ (2)}} \times \frac{100}{1} \text{ (1)}$$

$$= \frac{4.71\% \text{ (2)}}{1} \times \frac{100}{1} \times \frac{100$$

- Award full marks for correct answer <u>even</u> if no workings are shown.
- Allow full marks for student's own figure if consistent with previous work.
- \*\* Penalise 1 mark if ratios not given to two decimal places where appropriate.
- \*\* Penalise 1 mark if appropriate units (times, %, years) omitted from final answers.
- \*\* No deduction if '€' symbol omitted.
- \*\* Allow 3 marks for correct formula if no other work shown.

# 5. Interpretation of Accounts (cont'd.)

## (a) (cont'd.)

(v) How long it would take one ordinary share to recover its value at present earnings.

gs. (12)

135 (2)

Earnings per Ordinary Share
$$= \frac{\text{Net Profit - Preference Dividend}}{\text{Number of Ordinary Shares Issued}} = \frac{62,000 \text{ (2)} - 5,000 \text{ (2)}}{550,000 \text{ (2)}}$$

$$= \frac{62,000 \text{ (2)} - 5,000 \text{ (2)}}{550,000 \text{ (2)}}$$

- Award full marks for correct answer even if no workings are shown.
- Allow full marks for student's own figure if consistent with previous work.
- \*\* Penalise 1 mark if ratios not given to two decimal places where appropriate.
- \*\* Penalise 1 mark if appropriate units (times, %, years) omitted from final answers.
- \*\* No deduction if '€' symbol omitted.
- \*\* Allow 3 marks for correct formula if no other work shown.

- (b) Indicate if the debenture holders would be satisfied with the performance, state of affairs and prospects of the company. Use relevant ratios and other information to support your answer. (40)
  - debenture holders would be concerned with the following:

## Performance

- (i) Profitability (7)
  - in 2015, Return on Capital Employed / ROCE was 9.5% (1)
  - in 2016, it is •8.24%, which is worse (1)
  - disimproved by 1.26%, which indicates an unhealthy trend (1)
  - if this trend continues, there is a risk of having to sell some of the fixed assets in order to repay the debenture holders (1)
  - the return is still ahead of the return from risk-free investments of 1-2% (1)
  - however, the return is only slightly above the 8% being paid on debentures / the rate being paid on debentures, which are secure (1)
  - represents a less efficient use of resources in 2016 (1)
- (ii) Dividend Policy (7)
  - in 2015, Dividend Cover was 2.59 times (1)
  - in 2016, it is  $^{\bullet}$ 1 ·63 times  $\left[\frac{62,000 5,000}{40,000 5,000}\right]$  (1)
  - Dividend Cover has worsened significantly (1)
  - based on this year's profit of €62,000, ordinary share dividends of €35,000 are excessive (1)
  - percentage of profits paid out in 2016 is  $^{\bullet}61 \cdot 40\% \left[ \frac{35,000}{62,000 5,000} \times \frac{100}{1} / \frac{1}{1 \cdot 63} \times \frac{100}{1} \right]$ , which is much higher than the figure of  $^{\bullet}38 \cdot 61\% \left[ \frac{1}{2 \cdot 59} \times \frac{100}{1} \right]$  in 2015 (1)
  - more of the profits should be retained (1) for the repayment of debentures (1)



#### **(b)** (cont'd.)

#### State of Affairs

- (iii) Liquidity (7)
  - in 2015, the Quick Ratio / Acid Test Ratio was 0.95:1 (1)
  - in 2016, the ratio is  ${}^{\bullet}0.73:1 \left[ \frac{110,000 55,000}{75,000} \right] (1)$
  - ratio has worsened in the last year (1)
  - company has a liquidity problem as the ratio has fallen well below the ideal of 1:1 (1)
  - the company now has only 73c available to pay every €1 owed in the short term (1)
  - if this trend continues, the company may have difficulty paying its debts, including future interest (1), and funds will not be available for the purpose of repaying the debenture loan (1)
- Gearing (7) (iv)
  - in 2016, the Gearing Ratio is  $^{\circ}35.18\%$   $\left[\frac{250,000 + 100,000}{995,000}\right]$  (1)
  - the company is low geared not dependent on outside borrowings / not at risk from outside investors (1)
  - in 2015, the ratio was 32% (1)
  - debenture holders would be dissatisfied that gearing has slipped slightly from 2015 / the company is more dependent on outside borrowings / debt capital than in 2015 (1)
  - in 2016, Interest Cover is ••4·1 times (1)
  - ratio has worsened from 2015, when it was 5.2 times (1)
  - worsening trend(s) should make the payment of both interest (and dividends) more difficult (1)
- Security Real Value of the Assets (7) (v)
  - the debentures are secured on the fixed assets (1)
  - the debenture holders would be interested in the size of the assets to ensure there is sufficient security for the loan (1)
  - fixed assets of €960,000, of which intangible assets are €120,000, leaving net fixed assets excluding intangibles of €840,000 (1)
  - it would be prudent to ascertain the real value of fixed assets as there are no write-offs like depreciation in the accounts (1)
  - fixed assets cover over value of loan is  $^{\circ}3.36$  times  $\left[\frac{750,000+90,000}{250,000}\right]$  /  $^{\circ}3.28$  times  $\left[\frac{750,000+70,000}{250,000}\right]$  /  $^{\circ}3.0$  times  $\left[\frac{750,000}{250,000}\right]$  (1)

•3·28 times 
$$\left[\frac{750,000 + 70,000}{250,000}\right] / •3·0 times \left[\frac{750,000}{250,000}\right] (1)$$

- debenture holders should feel secure because of the excess in value of the fixed assets over the loan (1)
- debenture holders would be dissatisfied that investments which cost €90,000 now only have a value of €70,000 - shows poor investment policy (1)
- Penalise once for incorrect ratio figure but accept thereafter if used consistently.
- Allow full marks for student's own figure if consistent with previous work.
- Figures in brackets show the breakdown of marks if answer incomplete.
- Accept student's own wording if equivalent meaning conveyed.
- \*\* Accept other appropriate material.
- \*\* For the purposes of presentation and clarity, headings and bullets are shown in this marking scheme but are not necessary in a student's answer.



## 5. Interpretation of Accounts (cont'd.)

#### **(b)** (cont'd.)

## Prospects

- (vi) Sector (5)
  - the company operates in the renewable energy sector growing market with emphasis on the environment (1)
  - prospects are good in the short term (1), helped by the availability of government grants and incentives to householders, e.g. insulation grants for homes / installation grants for solar heating panels / tax relief on home renovations (1)
  - prospects are also good in the long term (1), particularly due to anticipated oil shortages and higher / fluctuating oil prices (1)
- Penalise once for incorrect ratio figure but accept thereafter if used consistently.
- •• Allow full marks for student's own figure if consistent with previous work.
- \*\* Figures in brackets show the breakdown of marks if answer incomplete.
- \*\* Accept student's own wording if equivalent meaning conveyed.
- \*\* Accept other appropriate material.
- \*\* For the purposes of presentation and clarity, headings and bullets are shown in this marking scheme but are not necessary in a student's answer.

(c) Explain the difference between the terms 'Liquidity' and 'Solvency' when used in Ratio Analysis. Refer to relevant ratios in your explanation.

#### • Liquidity (5)

- measures the ability (1) of the company to pay its short-term debts (1) as they fall due (1)
- Quick Ratio / Acid Test Ratio (1) is a good indicator of liquidity as it includes only liquid assets, i.e. cash and debtors (1)

## Solvency (5)

- measures the ability (1) of the company to pay <u>all of its debts</u> (1) as they fall due (1) Any 2:  $(2 \times 1)$
- a business is solvent if its total assets exceed its outside liabilities
- most important indicator of a business's ability to survive in the long term
- Debt to Equity Ratio / Total Debt to Total Assets Ratio are good indicators of a company's solvency
- \*\* Figures in brackets show the breakdown of marks if answer incomplete.
- \*\* Must include underlined phrase or equivalent to award mark for explanation.
- \*\* Accept student's own wording if equivalent meaning conveyed.
- \*\* Accept other appropriate material.
- \*\* For the purposes of presentation and clarity, headings and bullets are shown in this marking scheme but are not necessary in a student's answer.



(10)