



**Coimisiún na Scrúduithe Stáit**  
**State Examinations Commission**

*Scéimeanna Marcála*

*Scrúduithe Ardteistiméireachta, 2003*

*Cuntasáíocht*

*Ardleibhéal & Gnáthleibhéal*

*Marking Scheme*

*Leaving Certificate Examination, 2003*

*Accounting*

*Higher Level & Ordinary Level*

# **LEAVING CERTIFICATE ACCOUNTING**

## **MARKING SCHEME FOR THE 2003 EXAMINATION**

### **INTRODUCTION**

The solutions and marking schemes for Accounting, Higher and Ordinary levels, are attached.

The solutions are printed and the marks allocated to each line/figure are highlighted and shown in a circle like this ⑥ alongside. These marks are then totalled for each section/page and shown in a square like this 

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Accounting solutions are mainly computational and most figures are made up of more than one component. If a figure is wrong per the solution, the examiners analyse the make-up of the candidate's figure and allocate some marks for each correct element included. To facilitate this, where relevant, the make-up of the figures is shown in workings attached to the solution.

In some Accounting questions there can be a number of alternative approaches and formats that can be validly used by candidates (eg A Bank Reconciliation Statement can start with either the bank statement figure or the adjusted bank account balance). The solutions provided here are based on the approaches adopted by the vast majority of teachers/candidates and alternatives are not included. In cases where a valid alternative solution is required, it is provided for the examiners, so that full marks can be gained for correct accounting treatment.

Sometimes the solution to a part of a question may depend on the answer computed in another part of that question. Where their calculation in Section (a) is incorrect, but this inaccurate information is used in the answer to Section (b), examiners give credit for analysis/decisions correctly made by the candidate on the basis of the incorrect data in this section. In this way, candidates are not penalised twice for the same error.

# Accounting – Higher Level 2003

## QUESTION 1

(a)

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### Trading , Profit and Loss Account the year ended 31/12/2002

	€	€	€
Sales			982,000 ②
<u>Less</u> Cost of sales			
Stock 1/1/2002		67,700 ②	
Add Purchases	W 1	<u>640,000 ⑥</u>	
		707,700	
<u>Less</u> Stock 31/12/2002	W 2	<u>(69,800) ⑥</u>	(637,900)
Gross profit			344,100
 <b><u>Less</u> Expenses</b>			
<b>Administration</b>			
Salaries and general expenses		194,100 ②	
Patents written off	W 3	12,000 ⑥	
Insurance	W 4	9,650 ⑧	
Depreciation - buildings	W 5	<u>19,000 ③</u>	234,750
 <b>Selling and Distribution</b>			
Loss on sale of delivery van	W 7	4,150 ⑥	
Commission		24,000 ②	
Depreciation- delivery vans	W 6	<u>23,175 ⑤</u>	51,325
			(286,075)
			58,025
 <b><u>Add</u> Operating income</b>			
Reduction in provision for bad debts	W 8		696 ④
Rent			15,000 ②
Discount	W 9		<u>5,300 ⑤</u>
Operating profit			79,021
Investment income			<u>10,500 ③</u>
			89,521
Mortgage interest	W 10		<u>(22,500) ⑥</u>
<b>Net profit for year</b>			<b><u>67,021 ⑦</u></b>

**QUESTION 1 – (continued)**

(b)

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**Balance Sheet as at 31 December 2002**

		Cost €	Accumulated Depreciation €	Net €	Total €
<b>Intangible Fixed Assets</b>					
Patents (€60,000 - €12,000)					48,000 ④
<b>Tangible Fixed Assets</b>					
Buildings	W 11	1,100,000 ②		1,100,000	
Delivery vans		<u>156,000 ②</u>	<u>74,825 ③</u>	<u>81,175</u>	
		<u>1,256,000</u>	<u>74,825</u>	<u>1,181,175</u>	1,181,175
<b>Financial Assets</b>					
Investments					<u>200,000 ②</u>
					1,429,175
<b>Current assets</b>					
Stock				69,800 ②	
VAT	W 12			24,500 ⑤	
Investment income due				6,000 ③	
Debtors			77,600 ②		
Less provision			<u>3,104 ①</u>	<u>74,496</u>	
				174,796	
<b>Creditors: amounts falling due within one year</b>					
Creditors			86,500 ②		
Mortgage interest due			18,750 ③		
PRSI			2,300 ②		
Bank			<u>70,900 ②</u>	<u>(178,450)</u>	<u>(3,654)</u>
					<u>1,425,521</u>
<b>Financed by</b>					
<b>Creditors: amounts falling due after more than one year</b>					
9% Fixed mortgage					500,000 ②
<b>Capital and reserves</b>					
Capital 1/1/2002				680,000 ①	
Add Net profit				<u>67,021 ①</u>	
				747,021	
Less Drawings				<u>37,500 ②</u>	
				709,521	
Revaluation reserve	W 13			<u>216,000 ④</u>	<u>925,521</u>
<b>Capital employed</b>					<u>1,425,521</u>

### QUESTION 1 - Workings

1. <b>Purchases</b>	668,000	
Less Payment for van	<u>(28,000)</u>	640,000
2. <b>Closing stock</b>	74,500	
Less valueless stock	<u>(4,700)</u>	69,800
3. <b>Patents</b>		
(€55,500 + €4,500) ÷ 5		12,000
4. <b>Insurance</b>	8,700	
Add Mortgage interest	250	
Add Discount received	<u>700</u>	9,650
5. <b>Depreciation -buildings</b>		
2 % of €950,000		19,000
6. <b>Depreciation - delivery vans</b>		
(€22,500 + €675) (€5,625 + €17,550) (€16,200 + €1,575 + €5,400)		23,175
7 <b>Loss on sale of van</b>		
(€42,000 - €17,850 - €20,000)		4,150 loss
<b>Provision for Depreciation - vans</b>		
(€69,500 - €17,850 + €23,175)		74,825
8. <b>Provision for bad debts</b>		
(€3,800 - €3,104 )		696cr
9 <b>Discount</b>	4,600	
Add Unrecorded Discount	<u>700</u>	5,300
10. <b>Mortgage interest</b>	4,000	
Less Suspense	(250)	
Add Interest due	<u>18,750</u>	22,500
11. <b>Buildings</b>	980,000	
Less VAT	(30,000)	
Add Revaluation	<u>150,000</u>	1,100,000
12. <b>VAT account</b>	5,500	
Less VAT on buildings	<u>(30,000)</u>	24,500
13 <b>Revaluation reserve</b>		
Land and buildings	150,000	
Provision for depreciation (47,000 + 19,000)	<u>66,000</u>	216,000

**QUESTION 2 – Published Accounts****38**

(a)

**Profit and Loss Account of North Plc for the year ended 31/12/2002**

	Notes	€
Turnover		1,105,000 ①
Cost of Sales (75,000 + 696,000 - 77,000 + 8000)	1	<u>702,000</u> ⑦
Gross profit		403,000
Distribution costs	W 1	50,000 ②
Administrative expenses	W 2	<u>313,200</u> ⑦
		39,800
Other operating income		
Discount		<u>6,160</u> ①
Operating profit	2	45,960
Profit on sale of land		85,000 ②
Investment income		<u>10,800</u> ③
		141,760
Interest payable	3	<u>16,000</u> ③
Profit on ordinary activities before taxation ①		125,760
Taxation		<u>33,000</u> ①
Profit after taxation		92,760
Dividends paid	4	27,000 ②
Dividends proposed	4	<u>41,000</u> ③
Profit retained for year		24,760
Profit brought forward at 1/1/2002		<u>73,700</u> ①
Profit carried forward at 31/12/2002		<u>98,460</u> ④

**Notes to the Accounts**

1. **Accounting policy notes** ③
  - Tangible Fixed Assets
  - Depreciation is calculated in order to write off the value or cost of tangible fixed assets over their estimated useful economic life, as follows:
    - Buildings - 2% per annum -straight line basis.
    - Delivery vans - 20% of cost
    - Stocks - Stocks are valued on a First in first out basis at the lower of cost and net realisable value.
  
2. **Dividends** ④
 

Ordinary dividends		
Interim paid 6.0c per share	21,000	
Final proposed 10.0c per share	<u>35,000</u>	56,000
Preference dividends		
Interim paid 4.0c per share	6,000	
Final proposed 4.0c per share	<u>6,000</u>	12,000
  
3. **Interest payable:** ①
 

Interest payable on debentures repayable during years 2008/2009	16,000
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**QUESTION 2 (continued)**

4. **Operating profit** ③

The operating profit is arrived at after charging:

Depreciation on tangible fixed assets	41,500	
Patent amortised	8,000	
Directors remuneration	84,000	
Auditors Fees	7,700	

5. **Profit on sale of property** ①

The company sold land for €85,000 greater than it cost. Cost was €90,000

**Workings**

1. **Distribution costs**

Advertising	21,000	
Depreciation - delivery vans	<u>29,000</u>	50,000

2. **Administrative expenses**

Directors fees	84,000	
Salaries and general expenses	177,000	
Rent	32,000	
Auditors fees	7,700	
Depreciation - buildings	<u>12,500</u>	313,200

(b)

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**Agencies**

The Government – Legislation

The European Union – directives

The Accountancy profession – FRS's and SSAP's

The Stock Exchange – Listing Rules

**QUESTION 3 – Control Accounts**

(a)

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**Adjusted Debtors Ledger Control Account**

		€			€
Balance b/d		33,444 ①	Balance b/d		633 ③
Dishonoured cheque	(a)	880 ⑥	Sales overstated	(c)	180 ⑥
Interest	(e)	20 ⑥	Credit note	(d)	566 ⑥
Restocking charge	(f)	24 ⑥	Balance c/d		33,622
Balance c/d		<u>633 ①</u>			<u>33,622</u>
		<u>35,001</u>			<u>35,001</u>
Balance b/d		33,622	Balance b/d		633

(b)

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**Schedule of Debtors Account Balances**

		€
Balance as per List of Debtors		27,619 ⑤
<u>Add</u>		
Dishonoured cheque	(a)	880 ③
Sales - cash and credit error	(b)	3,400 ⑤
Sales	(c)	1,680 ③
Interest	(e)	<u>48 ②</u>
		6,008
		33,627
<u>Deduct</u>		
Credit note	(d)	622 ②
Reduction in restocking charge	(f)	<u>16 ③</u>
		638
Net balance as per adjusted control account		<u>32,989 ②</u>



**QUESTION 4 – Revaluation of Fixed Assets**

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(a)

<b>Land and Buildings Account</b>			
		€	€
1/1/98	Balance b/d	630,000 <sup>②</sup>	
1/1/98	Revaluation Res.	<u>120,000<sup>②</sup></u>	
		<u>750,000</u>	
			750,000
1/1/99	Balance b/d	750,000	
		<u>750,000</u>	
01/01/99	Disposal		250,000 <sup>①</sup>
31/12/99	Balance c/d		<u>500,000</u>
			<u>750,000</u>
1/1/00	Balance b/d	500,000 <sup>①</sup>	
	Bank	340,000 <sup>②</sup>	
	Bank	80,000 <sup>②</sup>	
	Wages	<u>30,000<sup>②</sup></u>	
		<u>950,000</u>	
			<u>950,000</u>
1/1/01	Balance b/d	950,000	
1/1/01	Revaluation Reserve	<u>95,000<sup>②</sup></u>	
		<u>1,045,000</u>	
			1,045,000
1/1/02	Balance b/d	1,045,000	
1/1/02	Revaluation Reserve	<u>125,000<sup>③</sup></u>	
		<u>1,170,000</u>	
			550,000 <sup>③</sup>
			<u>620,000</u>
			<u>1,170,000</u>

<b>Provision for Depreciation on Buildings Account</b>			
		€	€
1/1/98	Revaluation Res.	84,000 <sup>②</sup>	
31/12/98	Balance c/d	<u>10,000</u>	
		<u>94,000</u>	
			84,000 <sup>④</sup>
			<u>10,000<sup>②</sup></u>
			<u>94,000</u>
31/12/99	Balance c/d	20,000	
		<u>20,000</u>	
1/1/99	Balance b/d		10,000
31/12/99	Profit and Loss		<u>10,000<sup>②</sup></u>
			<u>20,000</u>
31/12/00	Balance c/d	39,000	
		<u>39,000</u>	
1/1/00	Balance b/d		20,000
31/12/00	Profit and Loss		<u>19,000<sup>②</sup></u>
			<u>39,000</u>
1/1/01	Revaluation Res.	39,000 <sup>②</sup>	
31/12/01	Balance c/d	<u>20,900</u>	
		<u>59,900</u>	
			39,000
			<u>20,900<sup>②</sup></u>
			<u>59,900</u>
1/1/02	Disposal	11,000 <sup>②</sup>	
1/1/02	Revaluation Res.	9,900 <sup>③</sup>	
31/12/02	Balance c/d	<u>12,400</u>	
		<u>33,300</u>	
			20,900
			<u>12,400<sup>②</sup></u>
			<u>33,300</u>
			12,400
			12,400

**QUESTION 4 – (continued)**

**Disposal of Land Account**

		€			€
1/1/99	Buildings	250,000 ①	1/1/99	Bank	320,000 ①
31/12/99	P & L (Profit)	<u>70,000 ①</u>			
		<u>320,000</u>			<u>320,000</u>

**Disposal of Buildings Account**

		€			€
1/1/02	Buildings	550,000 ①	1/1/02	Depreciation	11,000 ①
31/12/02	P & L (Profit)	<u>51,000 ①</u>	1/1/02	Bank	<u>590,000 ①</u>
		<u>601,000</u>			<u>601,000</u>

**Revaluation Reserve Account**

		€			€
1/1/98	Revenue reserve	40,000 ①	1/1/98	Land and Buildings	120,000 ①
1/1/02	Revenue reserve	244,000 ①		Provision for Dep	84,000 ①
			1/1/01	Land and Buildings	95,000 ①
				Provision for Dep	39,000 ①
			1/1/02	Land and Buildings	125,000 ①
				Provision for Dep	9,900 ①

**Revenue Reserve Account**

		€
1/1/98	Revenue reserve	40,000 ①
1/1/02	Revenue reserve	244,000 ①

## QUESTION 5 – Interpretation of Accounts

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(a)

$$\begin{aligned} \text{Cash sales} & \quad \frac{\text{Debtors} \times 12}{\text{Credit sales}} = 1 & \quad \text{Credit sales} = \frac{74,000 \times 12}{1} \\ & \quad \text{Credit sales} = 888,000 \\ & \quad \text{Cash sales} = 980,000 - 888,000 = \mathbf{€92,000} \text{ ⑫} \end{aligned}$$

$$\text{Earnings per share} \quad \frac{\text{Net profit} - \text{Pref Div} \times 100}{\text{Number of ordinary shares}} = \frac{130,000 \times 100}{650,000} = \mathbf{20c} \text{ ⑩}$$

$$\begin{aligned} \text{Market Price} & \quad \frac{\text{Market price}}{\text{Earnings per share}} = 11 \\ & \quad \frac{x}{20} = 11 = \mathbf{220c} \text{ ⑧} \end{aligned}$$

$$\text{Dividend cover} \quad \frac{\text{Net profit after Pref Div}}{\text{Ordinary dividend}} = \frac{130,000}{55,000} = \mathbf{2.4 \text{ times}} \text{ ⑩}$$

$$\text{Dividend Yield} \quad \frac{\text{Dividend per share} \times 100}{\text{Market price}} = \frac{8.46p \times 100}{220p} = \mathbf{3.85\%} \text{ ⑩}$$

(b)

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I would advise my friend to buy shares in O’Gara PLC Ltd for the following reasons:

### **Gearing ⑩**

Gearing is 20.6% or 0.26 to 1. The company is low geared at 20.6% and interest cover is 15.3 times. Therefore there is little risk from outside investors. Last years gearing and interest cover were 35% and 9 times respectively. These figures indicate improved situations and that the company is less at risk and is better able to pay interest in 2002 than in 2001. The prospects of being able to pay dividends are good.

### **Dividends ⑩**

Dividend per share is 8.46c. The dividend per share has increased from 6.5c since 2001. The company’s dividend cover is 2.4 times and dividend yield is 3.85%. The dividend policy is such that a shareholder can expect a decent amount of profits will be paid out each year and at the same time the long term prospects of capital gain is good. The real return to ordinary shareholders would be 9.1% based on available profits

## **QUESTION 5 – (continued)**

### **Profitability ⑩**

O’Gara PLC is a profitable firm because its return on capital employed of 15.8% and on equity funds of 16.9% indicate that the firm is earning much more (three times) than the return from risk free investments of about 4% to 6%. These are big increase from 14% and 7.6% respectively in 2001. The earnings per share has increased by 2c from 18c in 2001 to 20c in 2002.

### **Liquidity ⑩**

O’Gara PLC has a liquidity problem. It would have difficulty paying its immediate debts. This difficulty has worsened since 2001 and is less able to pay its immediate debts in 2002 as indicated by the acid test ratio. This ratio has worsened from 0.75 in 2001 to 0.67 in 2002. This ratio indicate that O’Gara PLC has only 67c available to pay each €1 owed immediately. The company had 75c available in 2001.

### **Reserves ⑤**

The firm is retaining profits and building up reserves which augers well in the long-term and should bring about an increase in the market price of the share. Reserves have risen by €75,000 to €119,000 since 2001.

### **Market Price ⑤**

The share value has gone up by 30c to €2.20 since 2001 and is likely to continue in its upward movement based on current year performance.

**Real value of fixed assets/ Security:** The real value of fixed assets and intangible assets should be questioned. There are no write offs. Although there are intangible assets valued at €160,000 there is little risk to the company as this is only 20% of the tangible fixed and this ensures that there is adequate security for the loan.

### **Sector**

The healthcare industry is a growth area and the sector has good prospects.

### **Price Earnings Ratio**

The price earnings ratio is 11. This means that at the present rate of earnings it would take 11 years to earn back the price of a share.

### **Interest Cover**

Interest Cover is 15.3 times and has improved from 9 times in 2001. There should be more profits available to the shareholders.

**QUESTION 6 – Final Accounts of a Service Firm**

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(a)

**Statement of Capital and Reserves on 1/1/2002**

		€	€
<b>Assets</b>			
Buildings and grounds	(520,000 – 31,200)	488,800 <sup>2</sup>	
Equipment	(90,000 – 54,000)	36,000 <sup>2</sup>	
Furniture	(25,000 – 15,000)	10,000 <sup>2</sup>	
Investments		80,000 <sup>1</sup>	
Stock - Health food for resale		1,500 <sup>1</sup>	
Stock – oil		660 <sup>1</sup>	
Contract cleaning prepaid		300 <sup>1</sup>	
Cash at bank		<u>7,560<sup>1</sup></u>	624,820
<b>Less Liabilities</b>			
Creditors for supplies		1,450 <sup>1</sup>	
Customers' advance deposits		5,500 <sup>1</sup>	
Loan		60,000 <sup>2</sup>	
Interest on loan	(12 months @ €400 per month)	4,800 <sup>2</sup>	
Issued capital		<u>320,000<sup>1</sup></u>	<u>391,750</u>
<b>Reserves</b>			<u>233,070<sup>2</sup></u>

(b)

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**Health Shop Profit and Loss Account for year ended 31/12/2002**

		€	€
Shop receipts - sales			67,000 <sup>2</sup>
<b>Less Expenses</b>			
Cost of goods sold -	(1,500 + 41,300 – 1,800)	41,000 <sup>5</sup>	
Light and heat		220 <sup>1</sup>	
Insurance		600 <sup>1</sup>	
Telephone		360 <sup>1</sup>	
Wages and Salaries	(60% of 16,000)	<u>9,600<sup>2</sup></u>	<u>51,780</u>
Contribution from health shop			<u>15,220</u>

(c)

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**Profit and Loss Account for year ended 31/12/2002**

		€	€
<b>Income</b>			
Interest received		2,160 <sup>1</sup>	
Profit on health shop		15,220 <sup>1</sup>	
Customers' fees	W 1	<u>264,750<sup>4</sup></u>	282,130
<b>Less Expenses</b>			
Wages and Salaries	(88,240 – 9,600)	78,640 <sup>2</sup>	
Insurance	(6,300 - 600)	5,700 <sup>1</sup>	
Light and heat		W 2	3,270 <sup>5</sup>
Purchases - supplies		W 3	38,750 <sup>3</sup>
Loan interest		W 4	2,000 <sup>3</sup>
Laundry			4,100 <sup>1</sup>
Postage and telephone			1,520 <sup>1</sup>
Depreciation - Buildings		W 5	12,000 <sup>1</sup>
- Equipment			21,200 <sup>1</sup>
- Furniture			5,000 <sup>1</sup>
Contract Cleaning		W 6	<u>2,600<sup>3</sup></u>
Net Profit for year			<u>174,780</u>
Add Reserve 1/1/2002			107,350 <sup>7</sup>
Profit and Loss balance 31/12/2002			<u>233,070<sup>1</sup></u>
			<u>340,420</u>

(d)

## Balance Sheet as at 31/12/2002

	Cost Depreciation		Net
	€	€	€
<b>Fixed Assets</b>			
Buildings and Grounds	700,000 ①		700,000
Equipment (90,000 + 16,000)	106,000 ②	75,200 ②	30,800
Furniture	<u>25,000 ②</u>	<u>20,000 ②</u>	<u>5,000</u>
	<u>692,000</u>	<u>107,600</u>	735,800
Investments			<u>80,000 ②</u>
			815,800
<b>Current Assets</b>			
Closing stock - shop goods	1,800 ②		
- oil	360 ②		
Cleaning prepaid	400 ②		
Customers' fees due	<u>650 ②</u>	3,210	
<b>Less Creditors: amounts falling due within 1 year</b>			
Bank overdraft	9,500 ②		
Electricity due	290 ②		
Customers' advance deposits	4,000 ②		
Creditors for supplies	<u>1,600 ②</u>	<u>(15,390)</u>	<u>(12,180)</u>
			<u>803,620</u>
<b>Financed by</b>			
<b>Share Capital and reserves</b>	<b>Authorised</b>	<b>Issued</b>	
Ordinary shares	<u>450,000 ①</u>	320,000 ①	
Revaluation Reserve (W 7)		143,200 ③	
Profit and Loss Balance		<u>340,420</u>	<u>803,620</u>
			<u>803,620</u>

Workings

<b>1 Customers' fees</b> – amount received	262,600	
Add advance deposits	5,500	
Add fees due	650	
Less fees prepaid 31/12/2002	<u>(4,000)</u>	264,750
<b>2 Light and heat</b> – amount paid	2,900	
Add stock – heating oil 1/1/2002	660	
Add electricity due 31/12/2002	290	
Less stock – heating oil 1/1/2002	<u>(360)</u>	
Less charge to shop	<u>(220)</u>	3,270
<b>3 Purchases</b> (38,600 + 1,600 - 1,450)		38,750
<b>4 Loan Interest</b> paid	6,800	
Less interest due 1/1/2002 for 1 year @ €400 per month	<u>4,800</u>	2,000
<b>5 Depreciation</b> - Buildings & grounds 2% x (520,000+80,000)		12,000
- Equipment 20% x (90,000 + 16,000)		21,200
- Furniture 20% x (25,000)		5,000
<b>6 Contract Cleaning</b> – amount paid	2,700	
Add amount prepaid 1/1/2002	300	
Less amount 31/12/2002	<u>(400)</u>	2,600
<b>7 Revaluation Reserve</b>		
Buildings (700,000 - 600,000 including extension)	100,000	
Depreciation (31,200 + 12,000)	<u>43,200</u>	143,200

**QUESTION 7 – Incomplete Records**

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(a)

**Balance Sheet as at 31 December 2002**

	€	€
<b>Intangible Assets</b>		
Goodwill		40,000 ③
<b>Fixed Assets</b>		
Buildings (290,000 + 250,000)	540,000 ③	
Equipment	<u>12,000 ③</u>	552,000
<b>Financial Assets</b>		
Investments		<u>7,575 ④</u>
		599,575
<b>Current Assets</b>		
Stock at 31 December 2002	17,200 ①	
Trade Debtors	34,300 ①	
Bank	68,462 ①	
Rates prepaid	<u>2,700 ④</u>	122,662
<b>Less Creditors: amounts falling due within 1 year</b>		
Creditors	29,900 ①	
Interest due	1,500 ③	
Electricity due	<u>560 ②</u>	(31,960)
Working Capital		<u>90,702</u>
		<u>690,277</u>
<b>Financed by</b>		
<b>Creditors: amounts falling due after more than 1 year</b>		
Loan		300,000 ②
<b>Capital - Balance at 1/1/2002</b>	350,000 ②	
Add Capital introduced	2,500 ③	
Less Drawings	W 10	<u>(23,215) ⑩</u>
		329,285
		629,285
Add Net Profit	W 1	<u>60,992</u>
Capital Employed		<u>690,277 ⑦</u>

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(b)

**Trading and Profit and Loss Account for year ended 31 December 2002**

	€	€
Sales	W 3	440,905 ②
Less Cost of goods sold		
Stock at 1 January 2002		16,700 ②
Add Purchases (270,243 - 5,200)	W 5	<u>265,043 ②</u>
		281,743
Less Stock 31 December 2002		<u>(17,200) ②</u>
Cost of sales	W 4	264,543 ②
<b>Gross Profit</b>	W 2	176,362 ②
Add Investment income		<u>75 ③</u>
		176,437
<b>Less Expenses</b>		
Wages and general expenses	W 6	95,750 ⑥
Light and heat	W 7	5,820 ⑥
Rates	W 8	10,500 ⑥
Interest	W 9	<u>3,375 ⑥</u>
<b>Net Profit</b>	W 1	<u>60,992 ①</u>

**QUESTION 7 – (continued)**

**10**

(c)

O'Higgins should keep a detailed cash book and general ledger supported by appropriate subsidiary day books. This would enable O'Higgins to prepare an accurate trading and profit and loss account and therefore would avoid reliance on estimates.

**Workings**

<b>1</b>	<b>Net profit for year (balancing figure in balance sheet)</b>		€	€
	Total net assets		690,277	
	Less Loan		(300,000)	
	Less capital after drawings and before profit		(329,285)	60,992
<b>2</b>	<b>Gross profit</b>			
	Net profit + expenses - gains	=	(60,987 + 115,450 – 75)	176,362
<b>3</b>	<b>Sales</b>			
	Gross profit = 40% of sales	=	176,362 x 2.5	440,905
<b>4</b>	<b>Cost of sales</b>			
	Sales less gross profit	=	440,905 - 176,362	264,543
<b>5</b>	<b>Purchases</b>			
	Cost of sales + closing stock - opening stock		264,543 + 17,200 – 16,700	265,043
<b>6</b>	<b>Wages and general expenses - amount paid</b>		98,000	
	Add college fees 30% of €4,500		1,350	
	Less wages due at 1/1/2002		(3,600)	95,750
<b>7</b>	<b>Light and heat - amount paid</b>		7,200	
	Add electricity due 31/12/2002		560	
	Less drawings		(1,940)	
	Profit and loss account			5,820
<b>8</b>	<b>Rates - amount paid</b>		10,800	
	Add rates prepaid 1/1/2002		2,400	
	Less rates prepaid 31/12/2002		(2,700)	
	Profit and loss account			10,500
<b>9</b>	<b>Interest - amount paid</b>		3,000	
	Add interest due		1,500	
	Less drawings		(1,125)	
	Profit and loss account			3,375
<b>10</b>	<b>Drawings</b>			
	College fees – family member		3,150	
	Equipment		4,000	
	Drawings of stock		5,200	
	Cash		7,800	
	Light and heat		1,940	
	Interest		1,125	23,215



**QUESTION 8 - Costing**

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(a)

Purchases In Units		Cost Price €	Purchases at Cost
4,200	@	€7	29,400
3,200	@	€7	22,400
2,700	@	€8	21,600
<u>2,300</u>	@	€9	<u>20,700</u>
<b><u>12,400</u></b>			<b><u>94,100</u></b>

Sales In Units		Selling Price €	Sales Value €
2,400	@	€11	26,400
4,150	@	€12	49,800
<u>3,900</u>	@	€13	<u>50,700</u>
<b><u>10,450</u></b>			<b><u>126,900</u></b>

Closing Stock in units		
Opening Stock		4,400
Add Purchases		<u>12,400</u>
		16,800
Less Sales		<u>10,450</u>
Closing stock		<b><u>6,350</u></b>

Closing Stock in €			€
2,300	@	€9	20,700
2,700	@	€8	21,600
<u>1,350</u>	@	€7	<u>9,450</u>
6,350			<u>51,750</u> <sup>15</sup>

**Trading Account for year ending 31 December 2002**

	€	€	
Sales			126,900 <sup>3</sup>
Less cost of goods sold			
Opening stock		30,800 <sup>2</sup>	
Purchases		<u>94,100</u> <sup>3</sup>	
		124,900	
Less Closing stock		<u>51,750</u> <sup>3</sup>	<u>73,150</u>
Gross profit			<u>53,750</u> <sup>4</sup>

**QUESTION 8 – (continued)**

**50**

(b)

**Calculation of Product Cost and Selling price**

	€	€
Direct Materials		6,450.00 ③
Direct wages:		
Department X (90 hours @ €11)	990 ③	
Department Y (180 hours @ €12)	2,160 ③	
Department Z (50 hours @ €10)	<u>500 ③</u>	3,650.00
Variable overheads		
Department X (90 hours @ €18)	1,620.00 ③	
Department Y (180 hours @ €16)	2,880.00 ③	
Department Z (50 hours @ €20)	<u>1,000.00 ③</u>	5,500.00
Fixed overheads		
Department X (90 hours @ €8.50)	765 ③	
Department Y (180 hours @ €7.50)	1,350 ③	
Department Z (50 hours @ €4.00)	<u>200 ③</u>	2,315.00
General Administration overhead (320 hours @ €4.50)		<u>1,440.00 ④</u>
Total Cost = 75% of selling price		19,355.00 ②
Profit = 25% of Selling Price		<u>6,451.67</u>
Selling Price = 100%		<u>25,806.67 ②</u>

To establish the selling price for the purpose of tendering ⑦

To control costs - budget versus actual ⑤

To help planning and decision making

To ascertain the value of closing stock in order to prepare final accounts

**QUESTION 9**

80

- |                         |  |            |
|-------------------------|--|------------|
| (i) Direct materials    |  | ① Variable |
| Direct wages            |  | ① Variable |
| Production overheads    |  | ② Mixed    |
| Other overhead costs    |  | ② Mixed    |
| Administration expenses |  | ② Fixed    |

<b>(ii) Production overheads</b>	<b>Units</b>	<b>Total cost</b>
	€	€
High	17,000	110,000
Low	<u>11,000</u>	<u>74,000</u>
Difference	<u>6,000</u>	<u>36,000</u>

The variable cost of 6,000 units is €36,000, therefore the variable cost per unit is €6. ⑥

	€	€	€	
	55%	70%	85%	
Total production overhead cost	74,000	92,000	110,000	
Variable cost (Units x €6)	<u>66,000</u>	<u>84,000</u>	<u>102,000</u>	
Therefore fixed cost	<u>8,000</u>	<u>8,000</u>	<u>8,000</u>	⑥

<b>(iii) Other overhead costs</b>	<b>Units</b>	<b>Total cost</b>
	€	€
High	17,000	54,000
Low	<u>11,000</u>	<u>36,000</u>
Difference	<u>6,000</u>	<u>18,000</u>

The variable cost of 6,000 units is €18,000, therefore the variable cost per unit is €3. ⑥

	€	€	€	
	55%	70%	85%	
Total other overhead costs at	36,000	45,000	54,000	
Variable cost (Units x €3)	<u>33,000</u>	<u>42,000</u>	<u>51,000</u>	
Therefore, fixed cost	<u>3,000</u>	<u>3,000</u>	<u>3,000</u>	⑥

**Question 9 – (continued)**

**(iv) Production overheads at the required flexible budgeted level of 96% - (19,200 units)**

	€
Variable cost (19,200 units x €6)	115,200
Fixed cost	<u>8,000</u>
Total cost	<u>123,200</u> *

**Other overhead costs at the required flexible budgeted level of 96% - (19,200 units).**

	€
Variable cost (19,200 units x €3)	57,600
Fixed cost	<u>3,000</u>
Total cost	<u>60,600</u> *

**Construction of a flexible budget for a 96% activity level.**

		<b>Flexible Budget</b>
		<b>96%</b>
Activity level		<b>19,200</b>
Units		€
Direct materials (€13 x 19,200)		249,600 ③
Direct wages (€9 x 19,200)		172,800 ③
Production overheads (€6 x 19,200) + 8,000		*123,200 ⑥
Administration overheads (fixed)		29,000 ②
Other overhead costs (€3 x 19,200) + 3,000		<u>*60,600</u> ⑥
Total cost (78% of sales)		635,200

**(v) Flexible Budget In Marginal Costing Format**

	€	€
Sales		814,359 ①
Less Variable costs		
Direct materials	249,600 ①	
Direct wages	172,800 ①	
Variable productions costs	115,200 ①	
Other overhead costs	<u>57,600</u> ①	<u>595,200</u>
<b>Contribution</b> ①		219,159
Less Fixed costs		
Production costs	8,000 ①	
Selling and distribution costs	3,000 ①	
Administration costs	<u>29,000</u> ①	<u>40,000</u>
<b>Profit</b>		<u>179,159</u> ③

**(vi) Principal Budget Factor - Often referred to as the limiting budget factor or the key budget factor. ⑦**

This is the factor that limits output and therefore prevents continuous expansion. Usually the principal budget factor is sales demand. The principal budget factor could be some other limiting factor such as availability of materials

**Why prepare a flexible budget and what does it show?**

To compare budgeted costs and actual costs at the same level of activity ⑥

To compare like with like

To help in controlling costs or to plan product levels

They show whether actual costs exceeded or were less than budgeted costs.(variances) ③

# Accounting - Ordinary Level 2003

## QUESTION 1 - Final Accounts of a Sole Trader

80
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(a)

### Trading and Profit and Loss Account of for year ended 31/12/2002

	€	€	€
Sales less returns (€836,000 - €6,000)			830,000 ⑤
Less: Cost of Sales:			
Stock 1/1/2002		63,000 ③	
Add Purchases less returns (€525,000 - €4,800)		520,200 ⑤	
Add Carriage In (20% x €8,000)		<u>1,600 ④</u>	
		584,800	
Less Stock 31/12/2002		<u>71,000 ③</u>	
<u>513,800</u>			
Gross Profit			316,200
<b>Less: Expenses</b>			
<b>Administration expenses ①</b>			
Depreciation - Buildings	7,200 ③		
- Office Equipment	1,700 ③		
Wages (90% x €220,000)	198,000 ⑤		
Stationery (€2,100 - €600)	1,500 ⑤		
General Expenses	<u>48,000 ④</u>	256,400	
<b>Selling and distribution expenses ①</b>			
Carriage on sales (80% x €8,000)	6,400 ④		
Advertising (€5,400 - €1,350)	4,050 ⑤		
Depreciation - Motor Vehicles	22,000 ③		
Showroom Expenses	<u>6,500 ④</u>	<u>38,950</u>	
Total expenses			<u>295,350</u>
			20,850
Add Operating Income			
Commission			3,400 ③
Decrease in Provision for Bad Debts (1,800 - 1,640)			160 ⑤
Discount			<u>2,800 ③</u>
Operating Profit			27,210
Interest			<u>(9,000) ⑤</u>
Net Profit for year			<u>18,210 ⑥</u>

**QUESTION 1 - (continued)**

40

(b)

**Balance Sheet of at 31/12/2002**

	Cost €	Acc Dep €	NBV €	€
<b>Intangible Fixed Assets</b>				
Patents				60,000 <sup>②</sup>
<b>Tangible Fixed Assets</b>				
Buildings	360,000 <sup>①</sup>	7,200 <sup>①</sup>	352,800	
Motor Vehicles	110,000 <sup>①</sup>	78,000 <sup>③</sup>	32,000	
Office Equipment	<u>24,000<sup>①</sup></u>	<u>8,700<sup>③</sup></u>		15,300
	<u>494,000</u>	<u>93,900</u>	<u>400,100</u>	<u>400,100</u>
				460,100
<b>Current Assets</b>				
Debtors		41,000 <sup>②</sup>		
Less: Bad Debts Provision		<u>1,640<sup>①</sup></u>	39,360	
Stock of Goods			71,000 <sup>②</sup>	
Stock of Stationery			600 <sup>②</sup>	
Advertising prepaid			<u>1,350<sup>③</sup></u>	
			112,310	
<b>Creditors: amounts falling due within 1 year</b>				
Trade Creditors		59,000 <sup>②</sup>		
Bank		19,700 <sup>②</sup>		
VAT		6,300 <sup>②</sup>		
PRSI		2,700 <sup>②</sup>		
Interest due		<u>3,000<sup>②</sup></u>	90,700	<u>21,610</u>
				<u>481,710</u>
<b>Financed by:</b>				
<b>Creditors: amounts falling due after more than 1 year</b>				
Term Loan				120,000 <sup>①</sup>
<b>Capital</b>				
Capital at 1/1/2002			382,500 <sup>②</sup>	
Add: Net Profit for the year			<u>18,210<sup>①</sup></u>	
			400,710	
Less: Drawings (€17,000 +€22,000)			<u>39,000<sup>④</sup></u>	<u>361,710</u>
				<u>481,710</u>

**QUESTION 2 – Control Accounts**

32

<b>Debtors Control Account</b>			
	€		€
Balance b/d	61,700 <sup>⑤</sup>	Discount allowed	2,100 <sup>②</sup>
Credit Sales (134,500-14,500)	120,000 <sup>⑥</sup>	Returns In	1,300 <sup>②</sup>
Interest	330 <sup>②</sup>	Bills Receivable	3,200 <sup>②</sup>
Cheque dishonoured	800 <sup>②</sup>	Bank	94,400 <sup>②</sup>
Balance c/d	440 <sup>①</sup>	Bad debts	520 <sup>②</sup>
		Contra	660 <sup>②</sup>
		Balance c/d	81,090 <sup>③</sup>
	<u>183,270</u>		<u>183,270</u>
Balance b/d	81,090 <sup>①</sup>	Balance b/d	440

28

<b>Creditors Control Account</b>			
	€		€
Returns Out	3,200 <sup>②</sup>	Balance b/d	49,600 <sup>⑤</sup>
Discount Received	2,700 <sup>②</sup>	Credit Purchases (99,600 – 9,600)	90,000 <sup>⑥</sup>
Bills payable	1,900 <sup>②</sup>	Discount Disallowed	550 <sup>②</sup>
Cheques	76,000 <sup>②</sup>	Balance c/d	310 <sup>①</sup>
Contra	660 <sup>②</sup>		
Balance c/d	56,000 <sup>③</sup>		
	<u>140,460</u>		<u>140,460</u>
Balance b/d	310	Balance b/d	56,000 <sup>①</sup>

**QUESTION 3 - Profit and Loss Account of a Limited Company**

35

(a)

**Profit and Loss Account of Arlington Ltd for the year ended 31/12/2002**

		€
Net Profit for year		220,000 <sup>③</sup>
Less: Taxation		<u>58,000<sup>⑤</sup></u>
Profit after taxation		162,000
Less: Appropriations		
General Reserve	30,000 <sup>④</sup>	
Interim Ordinary Dividend 6c	30,000 <sup>④</sup>	
Interim Preference Dividend for half year	13,500 <sup>④</sup>	
Proposed Preference Dividends	13,500 <sup>④</sup>	
Proposed Ordinary Dividend 7c	<u>35,000<sup>④</sup></u>	<u>122,000</u>
Retained profit for year		40,000
Retained Profit 1/1/2001		<u>75,000<sup>④</sup></u>
Retained Profits carried forward		<u>115,000<sup>③</sup></u>

25

(b)

**Balance Sheet extract at 31/12/2002**

	€	€	€
<b>Less: Creditors: amount falling due within 1 year</b>			
Preference Dividend due	13,500 <sup>④</sup>		
Ordinary Dividend due	35,000 <sup>④</sup>		
Taxation due	<u>58,000<sup>④</sup></u>	106,500	
<b>Financed by:</b>			
<b>Capital and reserves</b>	<b>Authorised</b>	<b>Issued</b>	
Share Capital			
Ordinary Shares of €1 each	750,000 <sup>①</sup>	500,000 <sup>②</sup>	
8% Preference Shares	<u>400,000<sup>①</sup></u>	300,000 <sup>②</sup>	
General Reserve		150,000 <sup>④</sup>	
Profit and loss balance		<u>115,000<sup>③</sup></u>	1,065,000
Shareholders Funds			<u>1,065,000</u>



**QUESTION 4 – Bank Reconciliation Statement**

(a)

35

**Adjusted Bank Account**

	€		€
Balance b/d	3,398 ⑥	Dishonoured cheque - J. Fahy	320 ⑥
Interest received	140 ⑥	Bank Charges	44 ⑥
		Standing Order	460 ⑥
		Balance c/d	<u>2,714 ⑤</u>
	<u>3,538</u>		<u>3,538</u>
Balance b/d	2,714		

(b)

25

**Bank Reconciliation Statement**

			€
Balance as per Bank Statement			1,524 ③
Add Unrecorded Lodgements			<u>2,350 ⑤</u>
			3,874
Less Cheques not presented	No 123454	260 ④	
	No 123457	<u>1,140 ④</u>	1,400
			2,474
Add Bank error – Patricia Black			<u>240 ⑦</u>
Balance as per adjusted Bank account			<u>2,714 ②</u>

**Alternative (b)**

**Bank Reconciliation Statement**

			€
Balance as per adjusted Bank account			2,714 ②
Add Cheques not presented	No 123454	260 ④	
	No 123457	<u>1,140 ④</u>	1,400
			4,114
Less Unrecorded Lodgements			<u>2,350 ⑤</u>
			1,764
Less Bank error - Patricia Black			<u>240 ⑦</u>
Balance as per Bank Statement			<u>1,524 ③</u>

**QUESTION 5 - Interpretation of Accounts**

**40**

(a)

1    **Opening Stock**     $(570,000 + 76,000 - 540,000)$     =    €106,000 ⑩

2    **Percentage Mark - up on cost**

$$\frac{\text{Gross Profit} \times 100}{\text{Cost of Sales}} = \frac{160,000 \times 100}{570,000} = 28.07\% \text{ ⑩}$$

3    **Period of credit received from Creditors**

$$\frac{\text{Creditors} \times 365}{\text{Credit Purchases}} = \frac{68,000 \times 365}{540,000} = \begin{matrix} 46 \text{ days ⑩} \\ 1.5 \text{ months} \end{matrix}$$

4    **Acid Test Ratio**

$$\frac{\text{Liquid Assets}}{\text{Current liabilities}} = \frac{36,000}{68,000} = 0.53 \text{ to } 1 \text{ ⑩}$$

(b)

**40**

- (i) **Debentures (2007/2009):** Debentures are long term loans. They must be repaid in full ⑩ between 2007 or 2009. Normally assets are pledged to the lender up to the value of the loan. Interest at the rate of 9% per annum is paid in the meantime.
- (ii) **Intangible Assets:** These are items of value that are not visible but saleable. They have ⑩ a long-term value to a firm but do not have a physical presence e.g Goodwill, Patents.
- (iii) **Rate of Stock Turnover:** This is the number of times during the year that the average ⑩ stock is sold. The higher this figure is the better. It is calculated by dividing the Cost of sales by the average Stock.
- (iv) **Capital Employed:** This is the total amount invested in the business. It is the ⑩ shareholders' funds plus the long-term liabilities.

(c)

**10**

The above firm would have difficulty paying its debts because the Current Ratio and the Acid Test Ratio of 1.64 to 1 and 0.53 to 1 respectively are well below the accepted norms of 2 to 1 and 1 to 1 respectively. This means that the firm has only 53c available immediately for each €1 owed.

(d)

**10**

Businesses take risks and for this they expect to earn more than they could get by investing their money in risk-free securities. The Return on Capital Employed for 2002 was 19.54%. The return currently available from banks and building societies is less than 5% so the company is performing well. This figure is more than double last years figure of 8%. This is a profitable firm.

**QUESTION 6 – Final Accounts of a Service Firm**

(a)

30

**Statement of Capital (Total Net Assets) on 1/1/2002**

	€	€
<b>Assets</b>		
Guest House	450,000 ④	
Holiday home	110,000 ④	
Boats	12,000 ③	
Stock Fuel/oil	800 ③	
Linen and Equipment	1,200 ③	
Cash at bank	<u>1,160 ⑤</u>	575,160
<b>Less Liabilities</b>		
Advance Deposits		<u>1,500 ⑤</u>
<b>Capital</b>		<u>573,660 ③</u>

(b)

40

**Profit and Loss Account for Year ended 31/12/2002**

		€	€
<b>Income</b>			
Receipts from guests	W 1	27,250 ④	
Rent from Holiday home	W 2	8,700 ④	
Boat hire receipts		<u>3,300 ②</u>	39,250
<b>Less Expenses</b>			
Guest house provisions	W 3	7,248 ⑥	
Light and Heat	W 4	1,000 ⑥	
Wages		3,400 ②	
Laundry		490 ②	
Advertising		550 ②	
Repairs and maintenance		1,600 ②	
Depreciation - Boats		2,400 ③	
- Equipment and Linen		<u>300 ③</u>	<u>16,988</u>
<b>Net Profit</b>			<u>22,262 ④</u>

**QUESTION 6 – (continued)**

30

(c)

**Balance Sheet as at 31/12/2002**

	Cost	Depreciation	Net
<b>Fixed Assets</b>			
Guest House	450,000 <sup>②</sup>		450,000
Holiday Home	110,000 <sup>②</sup>		110,000
Boats	12,000 <sup>②</sup>	2,400 <sup>②</sup>	9,600
Linen and equipment	<u>1,200<sup>②</sup></u>	<u>300<sup>②</sup></u>	<u>900</u>
	<u>573,200</u>	<u>2,700</u>	570,500
<b>Current Assets</b>			
Bank		2,770 <sup>③</sup>	
Stock of oil		<u>750<sup>③</sup></u>	
		3,520	
<b>Current Liabilities</b>			
Advance deposits for 2003	1,550 <sup>③</sup>		
Owing for provisions/creditors	<u>260<sup>③</sup></u>	<u>1,810</u>	
			<u>1,710</u>
			<u>572,210</u>
<b>Financed by</b>			
Capital		573,660 <sup>①</sup>	
Add Net Profit		<u>22,262<sup>①</sup></u>	
		595,922	
Less Drawings	W 5	<u>23,712<sup>④</sup></u>	572,210
			<u>572,210</u>

**Workings**

<b>W 1 Receipts from guests</b>	28,800	
Less deposits for 2003	<u>(1,550)</u>	27,250
<b>W 2 Rent from Holiday home</b>	7,200	
Add advance deposits on 1/1/2002	<u>1,500</u>	8,700
<b>W 3 Guest house provisions</b>	8,800	
Add Amount owing 31/12/2002	<u>260</u>	
	9,060	
Less Drawings	<u>(1,812)</u>	7,248
<b>W 4 Light and Heat stock on 1/1/2002</b>	800	
Add Payment	950	
Less stock on 31/12/2002	<u>(750)</u>	1,000
<b>W 5 Drawings - cash</b>	21,900	
Add Provisions	<u>1,812</u>	23,712

## QUESTION 7 - Cash Flow Statement

30

(a)

### Reconciliation of Operating profit to net cash flow from operating activities:

	€
Operating profit	144,000 ③
Depreciation	17,000 ⑥
<i>Increase</i> in Stock	(24,000) ⑥
<i>Increase</i> in Debtors	(23,000) ⑥
<i>Decrease</i> in Creditors	<u>(11,000) ⑥</u>
Net Cash inflow from operating activities	<u>103,000 ③</u>

(b)

70

### Cash Flow Statement of Arkins Ltd for the year ended 31/12/2002

	€
<b>Operating Activities ②</b>	
Net cash inflow from Operating activities	103,000 ⑤
<b>Return on investments and servicing of finance ②</b>	
Interest paid	(8,000) ⑧
<b>Taxation ②</b>	
Tax paid	(24,000) ⑧
<b>Capital expenditure and Financial Investment ②</b>	
Purchase of fixed assets	(60,000) ⑧
<b>Equity dividends paid ②</b>	
Dividends paid	<u>(20,000) ⑧</u>
Net cash outflow before liquid resources and financing	(9,000)
<b>Financing</b>	
Issue of Shares	50,000 ⑧
Repayment of debentures	<u>(30,000) ⑧</u>
Net cash inflow from financing	20,000
Increase in Cash	③ <u>11,000</u>
<b>Reconciliation of net cash to movement in net debt</b>	
Increase in cash during period	11,000 ①
Cash paid for repayment of debentures	<u>30,000 ①</u>
Change in net debt	41,000
Net debt at 1/1/2002	<u>(95,000) ①</u>
Net debt at 31/12/2002	<u>(54,000) ①</u>

**Alternative – QUESTION 7 - Cash Flow Statement**

30

(a)

**Reconciliation of Operating profit to net cash flow from operating activities:**

	€
Operating profit	144,000 ③
Depreciation	17,000 ⑥
<i>Increase</i> in Stock	(24,000) ⑥
<i>Increase</i> in Debtors	(23,000) ⑥
<i>Decrease</i> in Creditors	(11,000) ⑥
Net Cash inflow from operating activities	<u>103,000</u> ③

(b)

70

**Cash Flow Statement of Arkins Ltd for the year ended 31/12/2002**

	€
<b>Operating Activities ②</b>	
Net cash inflow from Operating activities	103,000 ⑤
<b>Return on investments ②</b>	
Interest paid	(8,000)
Net cash outflow from return on investment	(8,000) ⑧
<b>Taxation ②</b>	
Tax paid	(24,000)
Net cash outflow from taxation	(24,000) ⑧
<b>Investing activities ②</b>	
Purchase of fixed assets	(60,000)
Net cash outflow from investing activities	(60,000) ⑧
<b>Equity dividends paid ②</b>	
Dividends paid	(20,000)
Net cash outflow from dividends	(20,000) ⑧
Net cash outflow before liquid resources and financing ④	(9,000)
<b>Financing</b>	
Issue of Shares	50,000 ⑧
Repayment of debentures	(30,000) ⑧
Net cash inflow from financing	<u>20,000</u>
Increase in Cash	③ <u>11,000</u>

**QUESTION 8 - Cost -Volume- Profit Analysis (Marginal Costing)**

80

<b>(a) Contribution per unit</b>		€	
Selling price			35
Variable cost			<u>15</u>
<b>Contribution</b>			<u><b>20</b></u>
			<b>€20 10</b>

**(b) Break-even point.**      =       $\frac{16,000}{20}$       =      **800 units 10**

**(c) Marginal Costing Statements**

Production levels	700 units	900 units	1,200 units	1,500 units
Sales	24,500	31,500	42,000	52,500
Less Variable cost	<u>10,500</u>	<u>13,500</u>	<u>18,000</u>	<u>22,500</u>
Contribution	14,000	18,000	24,000	30,000
Fixed cost	<u>16,000</u>	<u>16,000</u>	<u>16,000</u>	<u>16,000</u>
<b>Profit/Loss in €1</b>	<b>5 (2,000)</b>	<b>5 2,000</b>	<b>5 8,000</b>	<b>5 14,000</b>

**(d) Level of sales required**      =       $\frac{\text{Fixed cost} + \text{target profit}}{\text{Contribution Per Unit}}$

=       $\frac{16,000 + 8,800}{20}$

=      1,240 units @ €35      =      **€43,400 20**

**(e) Margin of safety in units**      =      1,240 - 800      =      **440 12**

**Margin of safety in Euro**      =      440 x 35      =      **€15,400 8**

**QUESTION 9 –Budgeting**

80

(a) Sales Budget

	Slim	Durable
Quantities	600	400
Expected Selling Price per unit	€140	€160
<b>Budgeted Sales Value</b>	<b>€84,000 ⑦</b>	<b>€64,000 ⑦</b>

(b) Production Budget

	Slim	Durable
Budgeted Sales (units)	600	400
Add Budgeted closing stock	<u>110</u>	<u>60</u>
	710	460
Less budgeted opening stock	<u>120</u>	<u>80</u>
<b>Budgeted production (in units)</b>	<b>590 ⑧</b>	<b>380 ⑧</b>

(c) Material Usage Budget

	Material A	Material B
<b>Slim</b>	(590 x 3 gms)1,770 gms	2,360 gms (590 x 4 gms)
<b>Durable</b>	(380 x 4 gms)1,520 gms	<u>1,900 gms (380 x 5 gms)</u>
<b>Material usage budget (in units)</b>	<b>3,290 gms ③</b>	<b>4,260 gms ③</b>

(d) Materials Purchases Budget

	Material A	Material B
Material usage in grams	3,290 ②	4,260 ②
Add Budgeted Closing stock	320 ③	260 ③
Less Budgeted Opening stock	<u>(300) ③</u>	<u>(240) ③</u>
<b>Material Purchases Budget in grams</b>	<b>3,310</b>	<b>4,280</b>
Purchase price	€10 ①	€11 ①
<b>Material Purchases Budget in €'s</b>	<b>€33,100 ①</b>	<b>€47,080 ①</b>

(e) Labour Budget

Production	
Slim (590 x 6 hrs)	3,540 ⑤
Durable (380 x 5 hrs)	<u>1,900 ⑤</u>
<b>Budgeted Direct Labour (in hours)</b>	<b>5,440</b>
	€12 ②
<b>Direct Labour Budget (in €'s)</b>	<b>€65,280 ②</b>