

**CAMBRIDGE**  
INTERNATIONAL EXAMINATIONS

**NOVEMBER 2002**

**GCE ADVANCED LEVEL**

**MARK SCHEME**

**MAXIMUM MARK : 120**

**SYLLABUS/COMPONENT : 9706/04**

**ACCOUNTING**



UNIVERSITY of CAMBRIDGE  
Local Examinations Syndicate

Question 1 (a)

Istaimy plc

Balance Sheet at 1 May 2001 after redemption of the preference share capital

	\$000
Tangible fixed assets	1 300
Net current assets (note 1)	<u>475 (3)</u>
	<u>1 775</u>
Ordinary share capital (note 2)	1 300 (2)
Capital Redemption Reserve (note 3)	200 (3)
Share Premium (note 4)	165 (4)
Profit and Loss Account	<u>110 (3)</u>
	<u>1 775</u>

15

Allocation of marks

Note 1. Net current assets:	\$000
Before new issue of shares	740 (1)
Proceeds of issue of ordinary shares	125 (1)
Redemption of preference shares	<u>(390) (1)</u>
	<u>475</u>
Note 2 Ordinary share capital before new issue	1 200 (1)
Add new issue	<u>100 (1)</u>
	<u>1 300</u>
Note 3 Capital Redemption Reserve	
Nominal value of new issue of shares	100 (1)
Nominal value of preference shares	<u>(300) (1)</u>
Reserve required	<u>200 (1)</u>
Note 4 Share Premium Account	
Before new issue of shares	200 (1)
Add premium on new issue	25 (1)
Premium of redemption of preference shares:	
300 000 x \$0.30	90 000
But limited to 300 000 x \$0.20	<u>(60) (1)</u>
	<u>165 (1)</u>
Note 5 Profit and Loss Account	
Before redemption of preference shares	340 (1)
Deduct transfer to C.R.R. (see note 3)	<u>(200) (1)</u>
excess premium on redemption	
(see note 4)	<u>(30) (1)</u>
	<u>110</u>

(b)

Istaimy plc  
Journal

	Dr. \$	Cr. \$
Tangible fixed assets (note 1)	834 000 (4)	
Stock	30 000 (1)	
Debtors (note 2)	72 000 (2)	
Bank	80 000 (1)	
Creditors (note 3)		69 400 (3)
10 per cent Debenture Stock		80 000 (1)
8 per cent Preference Share capital (note 4)		62 700 (2)
Ordinary share capital (note 5)		627 000 (3)
Share Premium (note 6)		169 290 (2)
Capital Reserve (Negative goodwill note 7)		7 610 (4)
	<u>1 016 000</u>	<u>1 016 000</u> -

Purchase of Erchetai plc for \$938 990<sup>(1)</sup> the consideration being satisfied by the issue of \$80 000 10 per cent debenture stock 2008/10, 62 700 8 per cent preference shares of \$1 at \$1.20 and 62 700 ordinary shares of \$10 at \$12.50.<sup>(1)</sup>

25

Allocation of marks

Note 1.

Tangible fixed assets:

Per balance sheet at 30 April 2002	928 000 (1)
Reduction in value of freehold buildings	(128 000) (1)
Add Outstanding instalments on machine	40 000 (1)
Deduct additional depreciation on machine	(6 000) (1)
	<u>834 000</u>

Note 2. Debtors:

Per balance sheet at 30 April 2002	76 000 (1)
Less bad debt (\$5000 - \$1000)	(4 000) (1)
	<u>72 000</u>

Note 3. Creditors

Per balance sheet at 30 April 2002	29 000 (1)
Add: instalments on machine	40 000 (1)
1 month's interest on outstanding instalments	400 (1)
	<u>69 400</u>

Note 4. Preference share capital  $\frac{\$1\,045\,000}{50} \times 3 = \$62\,700$  (1)

Note 5 Ordinary share capital  $\frac{\$1\,045\,000}{50} \times 3 \times \$10 = \$627\,000$

Note 6. Share Premium

Premium on 62 700 preference shares at \$0.20 per share	12 540 (1)
Premium on 62 700 ordinary shares at \$2.50 per share	<u>156 750</u> (1)
	<u>169 290</u>

Note 7. Capital Reserve:

Tangible fixed and current assets acquired at valuation	1 016 000	(1)
Less creditors	<u>69 400</u>	(1)
Net asset value	946 600	
Purchase consideration (80 000 + 75 240 + 783 750)	<u>938 990</u>	(1)
Capital reserve - negative goodwill	<u>7 610</u>	(1)

Q2

Budgeted Balance Sheet of Prophile plc at 31 October 2003

	At cost \$'000s	At valuation \$'000s	Depn. \$'000s	NBV \$'000s	Notes
Tangible fixed assets					
Freehold premises (note 1)		1 000 (2)	(1)	1 000 (1)	1
Plant and machinery	1 380 (3)		580 (3)	800 (1)	2
				1 800	OF
Current assets					
Stock			115 (3)		3
Debtors			97 (3)		4
Cash at bank			<u>123</u> (2)		5
			335		
Creditors: amounts due within one year					
Trade creditors		47 (3)			6
Dividends		<u>50</u> (1)	<u>97</u>	<u>238</u>	7
				2 038	
Creditors: amounts due after more than one year					
10% debenture stock 2002/2005 (must be deducted)				<u>200</u> (2)	8
				<u>1 838</u>	
Share capital and reserves					
Ordinary shares of \$1				1 000 (2)	9
Share premium account				200 (4)	10
Revaluation Reserve				240 (2)	11
General Reserve				160 (3)	12
Profit and Loss Account				<u>238</u> (4)	13
				<u>1 838</u>	

40

Allocation of marks in Question 2

1. Freehold premises	Cost \$000	Depreciation \$000	NBV \$000
At 31.10.2002	850 (1)	(90)	760
Revaluation	<u>150</u> (1)	<u>90</u>	<u>240</u>
At 31.10.2003	<u>1000</u>	- (1)	<u>1000</u> (1)
2. Plant and machinery	Cost \$000	Depreciation \$000	NBV \$000
At 31.10.2002	1 197	(469)	728
Additions	293 (1)		293
Depreciation		(200) (1)	(200)
Disposals	<u>(110)</u> (1)	<u>89</u> (1)	<u>(21)</u>
At 31.10.2003	<u>1 380</u> (1)	<u>580</u> (1)	<u>(800)</u> (1)

The following in \$000:

The following in \$000:

3. Stock  $\overset{(1)}{\$191} - \overset{(1)}{76} = \$115 \text{ (1)}$
4. Debtors  $\overset{(1)}{\$82} + \overset{(1)}{15} = \$97 \text{ (1)}$
5. Cash at bank  $\overset{(1)}{\$25} + \overset{(1)}{98} = \$123$
6. Creditors  $\overset{(1)}{\$73} - \overset{(1)}{26} = \$47 \text{ (1)}$
7. Dividends: ordinary  $\$(40 + 30 - 70 + 50(\text{proposed})) = \$50 \text{ (1)}$
8. Debentures  $\overset{(1)}{\$300} - \overset{(1)}{100} = \$200$
9. Ordinary shares  $\overset{(1)}{\$(850)} + \overset{(1)}{150} = \$1000$
10. Share Premium account at 31.10.2002 \$150 (1)  
 premium on share issue 60 (1)  
 premium on redemption of preference shares (part) (10) (1)  
 At 31.10.2003 \$ 200 (1)
11. Revaluation Reserve \$240 (see 1. above) (2)
12. General reserve  $\overset{(1)}{\$(100)} + \overset{(1)}{60} = \$160 \text{ (1)}$
13. Profit and Loss Account \$'000s  
 At 31.10.2002 173 (1)  
 Less surplus of premium on redemption  
 of preference shares not charged to  
 Share Premium account (10) (1)  
 Retained profit for the year 75 (1)  
 At 31.10. 2003 238 (1)

Question 3A

(a)

	Process 1		\$'000s
Materials	40 000 (1)	Transferred to Process 2	384 000 (1) OF
Direct labour	224 000 (1)		
Variable overhead	48 000 (1)		
Fixed overhead	<u>72 000 (1)</u>		
	<u>384 000</u>		<u>384 000</u>

	Process 2		\$'000s
Materials from Process 1	384 000 (1) <sup>OF</sup>	Transferred to Process 3	
Added materials (note 1)	35 550 (4)	(note 5)	523 125 (1) OFs if
Direct labour (note 2)	70 200 (4)	Work in progress (note 6)	30 975 (1) working s
Variable overhead (note 3)	11 700 (4)	c/d	shown
Fixed overhead (note 4)	<u>52 650 (4)</u>		
	<u>554 100</u>		<u>554 100</u>

Work in progress b/d 30 975

24

Note 1 Additional materials	(1) (1) (1)	\$
Completed units (7500 x 3 x \$1.5)		33 750
Work in progress (500 x 3 x 0.8 x \$1.5)		<u>1 800</u>
		35 550
Note 2 Direct labour	(1) (1) (1)	
Completed units (7500 x 0.75 x \$12)		67 500
Work in progress (500 x 0.75 x 0.6 x \$12)		<u>2 700</u>
		70 200
Note 3 Variable overhead	(1) (1) (1)	
Completed units (7500 x 0.75 x \$2)		11 250
Work in progress (500 x 0.75 x 0.6 x \$2)		<u>450</u>
		11 700
Note 4 Fixed overhead	(1) (1) (1)	
Completed units (7500 x 0.75 x \$9)		50 625
Work in progress (500 x 0.75 x 0.6 x \$9)		<u>2 025</u>
		52 650
Note 5 Finished units; materials from Process 1 (\$384 000 x 7500/8000)		\$ 360 000
added materials		33 750
labour		67 500
variable overhead		11 250
fixed overhead		<u>50 625</u>
		523 125 (1)
Note 6 Work in progress: materials from Process 1 (\$384 000 x 500/8000)		24 000
added materials		1 800
labour		2 700
variable overhead		450
fixed overhead		<u>2 025</u>
		30 975 (1)

- (b) (i) Cost of one completed unit of Process 1:  $\frac{384\,000}{8000} = \$48$  (1) (OF)  
(ii) Cost of one completed unit of Process 2:  $\frac{523\,125}{7500} = \$69.75$  (1) (OF)  
(iii) Cost of one unit of work in progress of Process 2:  $\frac{30\,975}{500} = \$61.95$  (1) (OF)

- (c) Completed production 6000 x .09 = 5 400 units (1)  
Stock of X: 5400 x 0.75 = 4050 units. (1)  
Stock of Y: 1350 units. (1)

- (d) Process 3

	\$'000s	
6000 units input (69.75 p.u.)	418 500	(1) (OF)
Additional materials	4 525	} (1)
Labour	9 250	
Variable overheads	2 700	
Fixed overheads	<u>5 400</u>	
	440 375	(1)

- (e) Cost per completed unit:  $\frac{440\,375}{5400} = \$81.55$  (1) (OF)  
Stock of X: 4050 units X \$81.55 Value \$330 278 (1) (OF)  
Stock of Y: 1350 units X \$81.55 Value \$110 092 (1) (OF)

12/12

12/12

Page 6 of 6	Mark Scheme	Syllabus	Paper
	A Level Examinations - November 2002	9706	4

- i) A by-product is one that is produced incidentally in a process and that has a low sales value. (1)
- (ii) If the sales value is very low, the processing costs may be reduced by any revenue derived from the sale. (1)

2/1