UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Subsidiary Level and GCE Advanced Level

MARK SCHEME for the May/June 2010 question paper

for the guidance of teachers

9706 ACCOUNTING

9706/41   Paper 41 (Problem Solving (Supplement)),
maximum raw mark 120

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UNIVERSITY *of* CAMBRIDGE
International Examinations

1 (a)

Aneeqa and Emilita
Partnership balance sheet at 1 April 2010

	$	$	$
Non-current (fixed) assets			
Premises			120 000) **1**
Equipment			36 000)
Fixtures			9 300) **1**
Motor vehicle			12 100)
			177 400
Current assets			
Inventory (stock)		19 900	**1**
Trade receivables (debtors)	35 000		
PDD	–1 750	33 250	**1**
		53 150	
Current liabilities			
Trade payables (creditors)	23 000		
Cash and cash equivalents (bank)	1 800	24 800	**1**
			28 350
			205 750

Capital	Aneeqa		Emilita		
Bal b/d	56 250	**1**	108 850	**1**	
Revaluation	16 350	**(3)**	38 300	**(3)**	
Goodwill	–5 600	**1**	–8 400	**1**	
Bal c/d	67 000	**1of**	138 750	**1of**	205 750

[17]

Revaluation				
Goodwill	9 000	**1**	5 000	**1**
Premises			34 000	
Equipment	4 000		1 000	
Fixtures	500		–200	
Vehicle	3 900	**2***		**2***
PDD	–850		–900	
Stock	–200		–600	
	16 350		38 300	

*or 1 for three components

(b)

		Aneeqa		Emilita	
	$	$		$	
New profit (16 + 34) × 1.1	55 000	**1**			
Salaries	–20 000	10 000		10 000	**1 for both**
IOC	–20 575	6 700	**1of**	13 875	**1of**
Share of profit	–14 425	5 770	**1of**	8 655	**1of**
	0	22 470		32 530	
Old profit		16 000		34 000	
Change in profit		6 470	**1of**	–1 470	**1of**

Partner with increased income is Aneeqa **1** **[9]**

(c)

	Aneeqa	Emilita	Partnership
If candidate uses original figures			

Current ratio   3.73 : 1 **1**   1.04 : 1 **1**   2.14 : 1 **1of**

Acid test   2.37 : 1 **1**   0.79 : 1 **1**   1.34 : 1 **1of**

OR

If candidate uses revalued figures

Current ratio   3.64 : 1 **1**   0.97 : 1 **1**   2.14 : 1 **1of**

Acid test   2.29 : 1 **1**   0.75 : 1 **1**   1.34 : 1 **1of**

Aneeqa's ratios are very high, suggesting working capital not well utilised.
Emilita's ratios are very low, suggesting a shortage of working capital.
Partnership's ratios are closer to average.
Both ladies have a lot of capital tied up in debtors and need to improve credit control.
Emilita was in danger of not being able to meet liabilities when they fell due.   **[3 × 1]**

Emilita is the partner benefitting from being no longer in danger of business insolvency.   **[1]**

  [10]

(d) 1 470 × 5 ÷ 3 =   2 450 **1of**

              + 55 000 **1of**
                57 450

           ÷ 50 000 **1**   =1.149

     14.9% increase **1of**   **[4]**

                                                           [Total: 40]

2 (a) **Income statement**
(Trading and profit and loss account) for the year ended 30 April 2010

	$	$	
Sales		602 000	
	1 **1**		
Finished goods at 1 May 2090 4 500 × 15 ÷ 115	34 500		**(2)**
Transfer from manufacturing account	483 000		**1**
	1 **1of**		
Finished goods at 30 April 2010 4 800 × 15 ÷ 115	–36 800	480 700	**(2)**
Gross profit		121 300	**1of**
Rent and rates	30 000		**1**
Electricity	18 000		**1**
Selling and admin	39 000	87 000	
		34 300	
Manufacturing profit	63 000		**1**
Less increase in provision for unrealised profit	–300	62 700	**2**
Total profit for the year (net profit)		97 000	**1of** [12]

(b) Value of inventory (stock):

Raw materials		18 000	**1**
Finished goods	36 800		**1of**
Less PUP	–4 800	32 000	**1**
		50 000	**1of** [4]

(c)

Engine	7.00 + 0.80 + 10/2 = 12.80	**2**
Carriage	5.00 + 0.50 + 10/5 = 7.50	**2**
Track	2.00 + 0.25 + 10/10 = 3.25	**2** [6]

(d)

Plain engines	14 + 18 – 20 =	12 @ 7.00	84.00	**1of**
	1 **1** **1**		**1**	
Painted engines	26 + 21 – 18 + 10 – 1 =	38 @ 12.80	486.40	**1of**
	1 **1** **1** **1** **1**	**1of**		
Damaged engine	1	1 @ 4.00	4.00	**1of**
	1	**1**	574.40	**1of** [16]

(e) IAS 2 **2** [2]

[Total: 40]

3 (a) (i)

		A			B	
	annual net cash flow	100 000			120 000	
		–40 000			–65 000	
		–8 000			–6 000	
		52 000	**1**		49 000	**1**

(ii) ARR

		A		B	
	average profit	14 500	**1of**	14 000	**1of**
	average capital	85 000	**1**	88 000	**1**
	ARR	17.06%	**1of**	15.91%	**1of**

(iii) payback period

		A		B		
	outlay	–150 000	**1**	–140 000	**1**	
	y1	52 000)	**1of**	49 000)	**1of**	
	y2	52 000)		49 000)		
	bal	–46 000		–42 000		
	y3	46 000/52 000 × 365		42 000/49 000 × 365		
		1of **1of**		**1of** **1of**		
		2 yrs 323 days	**1of**	2 yrs 313 days	**1of**	[18]

(b) NPV of Project A

	CF				DCF	
y0	–150 000	**1**		1	–150 000	**1**
y1	52 000	**1of**		0.909	47 268	**1of**
y2	52 000	**1of**		0.826	42 952	**1of**
y3	52 000	**1of**		0.751	39 052	**1of**
y4	52 000	**1of**		0.683	35 516	**1of**
total					14 788	**1of** [11]

(c) Limitations

(i) ARR
ignores timing of cash flows
ignores risk
average profit and average capital may be difficult to estimate

(ii) Payback
ignores length of project life
ignores timing of cash flows

(iii) NPV
complex calculations
cash flows are estimates
difficulties in deciding on cost of capital   **[6]**

(d) Select B.
ARR better for A.
Payback better for B.
NPV better for B.
NPV indicator takes priority over the others.   **[5]**

[Total: 40]