CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Advanced Level

MARK SCHEME for the May/June 2014 series

9706 ACCOUNTING

9706/41

Paper 4 (Problem Solving [Supplement]), maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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1 (a)

Income statement for year en	ided 31 December 2013
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	\$	\$	1
Sales (\$85 000 + 20 000 (1) – 30 000)		75 000 (1) of	
Opening inventory	15 000		
Purchases (\$30 000 + 55 000 (1) – 25 000) (1) of	<u>60 000</u>		
	⁷⁵⁰⁰⁰ (1) both		
Closing inventory	30 000	<u>45 000</u>	
Gross profit		30 000 (1) of	
Expenses	20 500 (1)		
Interest on loan – Tan	<u>2000</u> (1)	<u>22500</u>	
Profit for the year		<u>7500</u> (1) of	[9]

(b)

Current account Tan

	\$		\$	
Balance b/d	4000 (1)	Share of profit	2500 (1) of	
	. ,	Interest on loan	2000 (1) of	
Drawings	2000	Balance c/d	<u>1500</u>	
_	6000		6000	
Balance b/d	1500 (1) of			[4]

(c)

	Ann \$000	Jan \$000	7	Г ап 000	ccounts	Ann \$000	Jan \$000		Tan \$000
Goodwill	12	6 (1) row	•		Bal b/d	40	40	30	(1) row
Motor vehicle		. ,	5	(1)	Gain on revaluation	10	10	10	(1) row
Current Alc Bank	4.4	50		(1) of (1) of	Goodwill Loan	6	6	6 30	(1) row (2)
Bal c/d	<u>44</u> <u>56</u>	<u>50</u> <u>56</u>	76		Bal b/d	<u>56</u> 44 (1) of	<u>56</u> 50 (1) of	76	- -
						()	()		[11]

(d) Dividend yield for XY limited

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(f) Option 1 will provide Tan with a return on his investment of 4% (1) of. He can buy $$67\,500 \div 2$ share = 33 750 shares (1) of which will give him income of $33\,750 \times \$0.08 = \$2\,700$ (1) of.

Option 2 will provide him with no return until year 2 (1). This will be just over 2.9% (1) $($2000 \div 67500)$ (1).

Option 3 will give a return of 5% (1) ($$67500 \times 5\% = 3375) (1 of).

Option 1 may lead to both an increase in dividends in the future (1) and also possible capital growth in the value of the share (1). The company looks reasonably secure with a dividend cover of 3 times (1) The shareholder would have voting rights (1) but no management role (1). Dividends are not guaranteed but dependent on level of distributable profits. (1). Limited liability (1).

Option 2 is less secure (1) as his figures are only projections which may or may not happen (1). unlimited liability (1). He will be his own boss (1) but this comes with responsibilities (1) He can have all available profits but is also liable to all the losses (1).

Option 3 is a safe return (1) but no chance of any growth of income or capital (1). guaranteed return (1) fixed return (1).

2 marks per option (1) per advantage (1) per disadvantage. (1) decision (0-2) justification.

[Max 9]

[Total: 40]

		2.
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2 (a)

Bridlington PLC Income statement for year ended 30 September 2013

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age 4		Mark Scheme		Syllabus	er
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	Income state	Bridlingto ment for year er	n PLC nded 30 Septemb	per 2013	Dana Cambridge Com
	ales ofit on costs rative expenses m operations	(262042)	(1) of (narr. req.) (4)	'	Onn
Workings Cost of s Distributi Trial bala Prepaym Loss Deprecia	ales: 177 838 + 479 on costs ance 108 376 ent (2 760 212) (1) (1)	Depreciation: Buildings P + M	of 11200 10500 6856	
Administrative Accrual Provision Loss Deprecia	4525 (1296 638	(1)) (1) (1) (1) split	Provision: Receivables 13 = Adjustment = 5	: 5538	[16]

(b)	Land	Buildings	Plant and Machinery	Motor vehicle		
Cost Balance 1/10/2012 Additions	100 000	280 000	95 000 10 000 (1)	81000	(1) row	
Disposal	100 000	280 000	<u>105 000</u>	(16 000) 65 000	(1)	
<u>Depreciation</u> Balance 1/10/2012 Disposal	Zero	78400	66 500	44 578 (7 000)	(1) row (1)	
Charge	<u>Zero</u> <u>Zero</u>	11200 (1) (89600	of $\frac{10500}{77000}$ (1) of	6856 44434	(1) of	
NBV at 30.09.13 NBV at 30.09.12	100 000 100 000	190400 201600	28 000 28 500	20 566 36 422	(1) of ro (1) row	[10]

		7.
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	(c) Assets
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(c)	Assets Non-current assets			any.
	Property, plant and equipment Current assets	338 966	(1) of	ambridge
	Inventories	172927		
	Trade and other receivables	135672	(2)	`
	Cash and cash equivalents	<u>Zero</u>		
		<u>308 599</u>		
	Total assets	<u>647 565</u>		
	Equity and liabilities			
	Equity Share capital	400 000		
	Share premium	40 000		
	Retained earnings	117395	(1) of	
	J	557 395	•	
	Current liabilities	55700	(0)	
	Trade and other payables	55 768 16 730	(2)	
	Tax liability Bank overdraft	16730 17672	(1) (1)	
	Bank overdrait	90 170	(1)	
	Total equity and liabilities	<u>647 565</u>		
	Working			
	Trade and other receivables:			
	Trade receivables from TB	138450		
	Provision	<u>(5538)</u>		
	Danie and the same and	132912	(4)	
	Prepayment	2760 125.672	(1)	
	Trade and other payables:	<u>135672</u>	(1)	
	Trade payables from TB	51 243		
	Accrual	4 5 2 5	(1)	
		55768	(1)	[8]
/ . IV	Familia			
(a)	Equity	495 000	(2)	
	Share canital		(<i>4</i>)	
	Share capital Share premium		(2)	
	Share premium	20000		
			(1)	
	Share premium Revaluation reserve	20 000 100 000	(1)	[6]

Working
Share capital Share capital 400 000 + 50 000 (1) + 45 000 (1) = 495 000 Share premium 40 000 + 25 000 (1) - 45 000 (1) = 20 000 117 395 + 2 615 = 120 010

[Total: 40]

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^	<i>,</i> ,	
3	(a)	

Year	Revenue \$	Costs \$	Interest \$	Net cash	
0	(200 000)	·	·	(200 000)	(1)
1	110000	(40 000)	(20000)	50000	(1)
2	115500	(41200)	(20000)	54300	(1)
3	121 275	(42436)	(20000)	58839	(1)
4	127 339	(43709)	(20000)	63630	(1)
5	133706	(45 020)	(20000)	68686	(1)
Total	407820	(212365)	(100000)	95455	(1) of

[7]

(b)

Year	10% Factor	Net cash flow	Net present value	
0	1.000	(200 000)	(200 000)	
1	0.909	50000	45450	(1) of
2	0.826	54300	44852	(1) of
3	0.751	58839	44 188	(1) of
4	0.683	63630	43459	(1) of
5	0.621	68686	42654	(1) of
Net present value (1) 20 603				(1) of

[7]

(c) \$95 455 (1) of / 5 (1) = \$19 091 (1) of 19 091 / (200 000 / 2) (1) $\times 100 = 19.09\%$ (1) of

[5]

[7]

(d)

,					
	Year	40% Factor	Net cash flow	Net present value	
	0	1.000	200 000	-200000	(1)
	1	0.714	50000	35700	
	2	0.510	54 300	27693	
	3	0.364	58839	21417	(1) of if 40% D.F used
	4	0.260	63630	16 544	
	5	0.186	68685	12775	
	Total			- 85 870	(1) of
	Internal rat	te of return		15.81%	

10% (1) + [30% (1)
$$\times$$
 \$20 603 / \$(20 603 + 85 870) (1) of] = 15.81% (1) of

(e) Drake should invest in Project Sylvania (1), because the accounting rate of return is greater (1) of, the net present value is greater (1) of, and the internal rate of return is greater (1) of than Project Utopia.

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(f) Interest would not be charged to the project (1), therefore the profits should be This will result in a higher accounting rate of return (1).

ARR = 195455 / 5 = 39091 (1) of /100000 (1) = 39.09% (1) of.

(g) Preference shares fixed dividend (1) in priority to ordinary shareholders (1).

Debenture secured on the asset (1). Interest charged may be at a lower rate than on the bank loan (1). Interest is charged before dividend is paid to ordinary and preference shareholders (1).

Sale of surplus non current assets (1) as long as this does not affect trading (1). Venture capitalist could invest (1) but would require a return on his investment (1)

Accept other reasonable alternatives.

[Max 4]

[Total: 40]