

#### **Cambridge International Examinations**

Cambridge International Advanced Subsidiary and Advanced Level

ACCOUNTING 9706/32

Paper 3 Structured Questions

May/June 2017

MARK SCHEME
Maximum Mark: 150

#### **Published**

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Question		Answer				Marks
1(a)	Richard Ang Manufacturing account for year ended 31 July 2016					7
	Purchases Carriage inwards Closing inventor Cost of raw mate Direct wages Prime cost Indirect wages Factory overhea  Opening work in Closing work in Closing work in Cost of goods m Factory profit 20 Transferred to (T	y of raw materials erials consumed  d  progress progress anufactured % Trading section of) the Income Statement  \$168 000+\$3500=\$171 500  \$24 000+\$16 000=\$40 000 1	\$ 23 500 20 200	\$ 14 800 207 600 6 800 229 200 16 400 212 800 171 500 384 300 51 400 161 000 596 700  3 300 600 000 120 000 720 000	(1) (1)OF (1) (1) (1)OF	
	Workings  Direct wages Factory overheads: Total rent:	\$168 000+\$3500=\$171 500		720 000	(1)OF	

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Question	Answer					Marks
1(b)	Richard Ang Income statement for year ended 31 July 2016					
	Revenue Return inwards  Opening inventory of finished goods Transferred from Manufacturing Account  Closing inventory of finished goods Gross profit Office overheads Carriage outwards  Factory profit Increase in provision for unrealised profit (54 000×20/120)(1)–(\$38 400×20/120)(1) Profit for the year  * Must include the item of 'Transferred from Manufacturing Account' ** Must include the item of 'Factory profit'  Workings  Finished goods  01 Aug 2015, \$32 000×120%=\$38 400	\$ 38 400 720 000 758 400 54 000  120 000 2 600	(1)	\$ 986 000 12 000 974 000  704 400 269 600 188 000 17 500 64 100  117 400 181 500	(1)OF	
	Office overheads $$194000-($16000-$40000 \times \frac{1}{4})=$188000$					

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Question	Answer	Marks
1(c)	\$ \$ Current Assets Inventory	
	Raw materials 16 400 Work in progress 20 200 }(1) for both	
	Finished goods 54 000 Less: Provisions for	
	Unrealised profit (9 000) 45 000 (1)OF 81 600 (1)OF	
1(d)	To remove unrealised profit from income statement (1) otherwise profits are overstated (1) by amount of unrealised profit.	
	In accordance with the prudence concept (1), to ensure inventories are not overvalued (1) and are valued at cost and not cost plus a mark-up (1).  Max 4	
1(e)	Responses could include:	
	Advantages	
	Family help Potential for new market Less risk of obsolete stock	
	Disadvantages	
	Less inventory to sell/may not be able to respond to increase in demand  More competition	
	May undercut him	
	If doesn't charge sister he will lose profit If sister's business fails he might not get paid	
	1 mark for each advantage. Max 2 1 mark for each disadvantage. Max 2	
	Total:	2

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Question			Answer		Marks
2(a)	(i)	Return on capital employed	\$400 000* (1) = 6.3	35% <b>(1)OF</b>	8
		*Profit from ops for 2016	\$160 000÷(1–60%)=\$400	0000	
	(ii)	Earnings per share	\$400 000 1 000 000 (1) = \$0	0.40 <b>(1)OF</b>	
	(iii)	Price earnings ratio	<del>\$6.4</del> = 16	5.00 <b>(1)OF</b>	
	(iv)	Dividend cover	\$\frac{\$400 000}{\$240 000} = 1.6	67 times <b>(1)OF</b>	
	(v)	Dividend yield	\$240 000 1 000 000 = \$0	).24 <b>(1)OF</b>	
			\$0.24 \$6.4 = 3.7	75% <b>(1)OF</b>	
2(b)	Share capital and reserv	res at 31 December 2017			6
		Ordinary shares capita Share premium Retained earnings <b>(W</b> 1	700	(1) (1)	
		<b>W1</b> Retained earnings at 1 Profit for the year for 2 (400+185)		(1) (1)OF	
		Dividend paid 585 × 60 Retained earnings at 3		(1)OF (1)OF	

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Question	Answer	Marks
2(c)	(i) Return on capital employed \$\frac{\$585 000}{\$7 734 000}\$ (1)OF = 7.56% (1)OF	6
	(ii) Earnings per share $\frac{$585000}{1200000}$ (1) = \$0.49 (1)OF	
2(d)	Responses could include:  Better/higher/increased return on capital employed Better/higher/increased earnings per share Share price may increase due to improved profitability Share price may decrease with more shares in circulation The project return is higher than the 2016 return on capital employed (1 mark) for the recommendation + (1 mark × 4 reasons)	5
	Total:	25

Question	Answer	Marks
3(a)	Responses may include:	4
	<ul> <li>Financial statements need to be understandable by different interested stakeholders;</li> <li>Financial statements need to be relevant for decision making</li> <li>Financial statements need to be reliable</li> <li>Financial statements need to be comparable</li> <li>Accounting policies adopted are appropriate</li> <li>Accounting concepts/assumptions are adhered to, i.e. Prudence, accrual, going concern and consistency</li> <li>To ensure fair representation and to show true and fair view</li> <li>Form the basis of auditor's opinion</li> </ul>	
	Accept any reasonable alternative (1 mark) × 4 valid points	

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Question	A	swer		Marks	
3(b)	The directors manage the company on behalf of the owners (shareholders) (1). They are accountable and report to the owners (shareholders) (1)				
3(c)	Z l Statement of financial po	imited sition at 31	December 2016	8	
	\$				
	Non-current assets				
	Property, plant and equipment 491 50		(\$478000+21 000 <b>(1)</b> –7500 <b>(1)</b> )		
	Current assets				
	Inventories 124 00	0			
	Trade receivables 18700	0 (1)	(\$217 000–30 000)		
	Cash and cash equivalents 13200 44300				
	Total assets 93450	<u>0</u>			
	Equity and liabilities Equity				
	Ordinary shares of \$1 each 500 00				
	Retained earnings 16450 Total equity 66450		(\$210 000–29 000 <b>(1)</b> –9000 <b>(1)</b> –7500 <b>(1)</b> )		
	Current liabilities	0			
	Trade payables 18800 Provision for compensation 2900				
	Taxation 5300	` '			
	27000				
	Total equity and liabilities 93450	<u>0</u>			

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Question	Answer	Marks
3(d)	Treatment of compensation (reference IAS 37) (1) There is a 90% probability(1) of losing the case. Therefore a provision for compensation (\$29 000) should be shown as a current liability/other payable (1)	6
	Treatment of trade receivables Z Limited only recovered \$21 000 in the form of non-current assets. (1) The remaining \$9000 which is irrecoverable debt should be written off as bad debt (or a specific provision) against retained earnings (1). The full \$30 000 has been deducted from trade receivables (1).	
	Treatment of machinery (reference IAS 36) (1) According to IAS 36, an asset is impaired when its carrying amount (\$40 000) is more than its recoverable amount (\$32 500). (1). Recoverable amount is the higher of its fair value (\$32 500) and value in use (\$19 500)(1). The impaired loss of the piece of machinery is \$7500 (\$40 000–\$32 500) which has to been written off against retained earnings. (1)	
	Max 2 marks for each adjustment	
3(e)	Advantages  increase the credibility/reliability of accounts  maybe helpful if Jack wants to apply for a bank loan/investment from 3 <sup>rd</sup> parties  help identify weaknesses in the internal procedures	5
	Disadvantages  • high cost of audit fee  • no segregation of ownership and management in Jack's business  • no need for audit as sole trader	
	Max 3 marks for the advantages and Max 2 marks for the disadvantages	
	Total:	25

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Question	Answer	Marks				
4(a)	Goodwill is the amount paid for the acquisition of a business in excess of the acquired business' separable net assets at fair value					
4(b)	Purchase consideration	4				
	Profit before appropriation:  Residual profit (36 000+24 000) 60 000  Partners' salaries (30 000+45 000) 75 000  Interest on capital (15 000+10 000) 25 000  160 000 (1)					
	× 5 800 000 <b>(1) OF</b>					
	Fair value of net assets taken over					
	Land and buildings 450 000					
	Plant and machinery 120 000					
	Motor vehicles 60 000					
	Inventory 49 000					
	Trade receivables <u>52 000</u> 731 000					
	Trade payable (39 000)					
	Goodwill 692 000 (1) 108 000 (1) OF					

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Question	Answer	Marks
4(c)	\$ \$ Purchase consideration \$800 000 (1) OF Value of motor vehicle taken over \$\frac{28 000}{828 000}\$ (1)	•
	Book value of net assets Land and buildings 320 000 Plant and machinery 135 000 Motor vehicles 110 000 Inventory 38 000 Trade receivables 54 000 Trade payables (39 000) 618 000 (1) Profit on realisation 210 000 (1) OF	
4(d)	Alex Brown \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1
	Workings:  \$ \$ \$ Purchase consideration 800 000 Cash (127 500) 8% Debentures Alex \$15 000÷8% 187 500 (1)	
	Brown \$10 000÷8% 125000 (1) (312 500) Settled by ordinary shares 360 000 Alex \$360 000×60% 216000 (1)OF Brown \$360 000×40% 144000 (1)OF (360 000)	

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Question	Answer	Marks
4(e)	The responses may include:  ROCE before the acquisition is 7.79% (\$352 000/\$4 516 000)  Additional return from this acquisition is 23.5%<(\$540 000-\$352 000)/\$800 000>  Shareholders may receive higher dividend  Improvement through the synergy effect, e.g. greater buying power, discounts from suppliers  Economy of scale  Alex and Brown's skills, experience and methods may bring additional benefits  Goodwill of partnership brings additional revenue/customers  Efficiency in operation  Access to wider market	5
	(1 mark) × 5 valid points  Total:	25

Question	Answer	Marks			
5(a)	Flexed budget for April				
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
5(b)(i)	LEV = 1050 (1) A (1)	2			
5(b)(ii)	LRV = 18 980 (1) A (1)	2			
5(b)(iii)	MUV = 1220 (1) A (1)	2			
5(b)(iv)	MPV = 3850 (1) F (1)	2			

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Question	Answer	Marks
5(c)	MUV – extra hours meant staff were demotivated/tired which increased wastage (1) inefficient use of material (1) MPV – quantity discount given (1) purchased materials from cheaper supplier (1)  Maximum 1 for MUV and 1 for MPV	2
5(d)	The suggestion appears sound (1) because the actual labour costs are higher (1) by \$11 390 (2)* than labour costs under the suggestion.  * (\$95 630 (1)–\$84 240 (1))=\$11 390  But inexperienced staff might make more errors (1) leading to an increase in the adverse materials usage variance. (1). Although labour costs are saved there will be higher training costs (1) which will impact on production/profit (1).  Decision (1) Justification (5)	6
5(e)	Helps preparation of budgets. Helps calculation of quotes/prices. Highlights the activities giving rise to the variances. Enables responsibility accounting.  Any three comments × (1 mark)	3

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Question			A	nswer					Marks
6(a)	Initial outlay One-off service cost Resale value Sales price increase Variable cost decrease	Year 0 \$ (125 000)	Year 1 \$ (1 000) 10 000 20 000	Year2 \$ 10 000 20 000	Year 3 \$ 10 000 20000	Year 4 \$ 10 000 20 000	Year 5 \$ 65 000 10 000 20 000	(1)OF } (1) both (1) row (1) row	5
	Maintenance costs  Total cash flows	(125 000)	(5000) 24000	(5 000) 25 000	(5000) 25 000	(5000) 25 000	(5000) 90 000	(1) row	
6(b)	Year Net cash flow  \$ 1							2	
6(c)	Simple to calculate/understand. Uses cash flows not profits so not corrupted by accounting methods. Reduces risk by preferring early cash flows/short term projects. Useful as a first screening tool. Useful for capital rationing decisions to identify those projects that generate cash quickly. Better for liquidity–prefers early cash flows.  (1 mark) × any 3 reasons, Max 3							3	

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Question			An	swer					Marks
6(d)	Total cash flows Discount factor	Year 0 \$ (125 000) 1	Year 1 \$ 24 000 0.909	Year2 \$ 25 000 0.826	Year 3 \$ 25 000 0.751	Year 4 \$ 25 000 0.683	Year 5 \$ 90 000 0.621	NPV \$	:
	Discounted cash flow	(125 000) <b>(1)OF</b>	21 816	20 650	18 775	17 075	55 890	9206 <b>(1)OF</b>	
			<b>~</b>	all 5	years (1)	)OF	<b>~</b>		
6(e)	$10\% (1) + \left[20 - 10(1) \times \frac{9206}{9206 + 24953} (10F)\right] = 12.695\% (1)OF$								
6(f)	NPV Both are positive but alternative machine has the better/higher NPV (1) IRR First machine has the better/higher IRR (1) Payback First machine has the better/shorter payback (1) Cost First machine has the lower initial outlay which helps as Tisha has limited capital available (1)  Choose the first machine (1) 1 For decision + Maximum 3 for reasons								
6(g)	Cash flow patterns (1) how reliable are they? (1) Which one is closest to current ROCE (1) Cost of capital (1) Source of capital/funding (1) Quality of output (1) Training time/costs (1) Environmental issues (1)								
	1 mark for valid point, Max 4								
								Total:	2

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