

#### ACCOUNTING

9706/32 May/June 2017

Paper 3 Structured Questions MARK SCHEME Maximum Mark: 150

Published

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		PUBLISHED					
Question		Answer				Marks	1
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 Cost of goods m Factory profit 20	ory of raw materials s y of raw materials erials consumed d progress progress anufactured	23 500 20 200		(1)OF (1)		

Question	Answer					Marks		
1(b)	Richard Ang							
	Income statement for year endedRevenueReturn inwardsOpening inventory of finished goodsTransferred from Manufacturing AccountClosing inventory of finished goodsGross profitOffice overheadsCarriage outwardsFactory profitIncrease in provision for unrealised profit $(54\ 000 \times 20/120)(1) - (\$38\ 400 \times 20/120)(1)$ Profit for the year* Must include the item of 'Transferred from Manufacturing Account'** Must include the item of 'Factory profit'WorkingsFinished goods01 Aug 2015, \$32\ 000 \times 120\% = \$38\ 400Office overheads\$194\ 000 - (\$16\ 000 - \$40\ 000 \times \frac{1}{4}\ )=\$188\ 000	31 July 2016 \$ 38 400 <u>720 000</u> 758 400 <u>54 000</u> 120 000 <u>2 600</u>	(1)	\$ 986 000 <u>12 000</u> 974 000 269 600 188 000 <u>17 500</u> 64 100 <u>117 400</u> 181 500	(1) (1)OF (1)			

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	
	<u>(3 000)</u> <u>43 000</u> (1)OF	
1(d)	To remove unrealised profit from income statement (1) otherwise profits are overstated (1) by amount of unrealised profit.	4
	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:	4
	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:	25

		F	PUBLISHED			<b>F</b>
Question			Answer			Marks
2(a)	(i)	Return on capital employed	\$400 000* \$6 300 000	(1) = 6	6.35% <b>(1)OF</b>	8
		*Profit from ops for 2016	\$160 000÷(1-	-60%)=\$40	00 000	
	(ii)	Earnings per share	\$400 000 1 000 000	(1) = 9	\$0.40 <b>(1)OF</b>	
	(iii)	Price earnings ratio	\$6.4 \$0.4	= 1	16.00 <b>(1)OF</b>	
	(iv)	Dividend cover	\$400 000 \$240 000	= 1	1.67 times <b>(1)OF</b>	
	(v)	Dividend yield	<u>\$240 000</u> 1 000 000	= ٩	\$0.24 <b>(1)OF</b>	
			\$0.24 \$6.4	= 3	3.75% <b>(1)OF</b>	
2(b)	Share capital and reserv	es at 31 December 2017				
		Ordinary shares capita Share premium Retained earnings <b>(W</b>		\$000 6000 700 <u>1034</u> <u>7734</u>	(1) (1)	
		W1 Retained earnings at 7 Profit for the year for 2 (400+185)		\$000 800 585	(1) (1)OF	
		Dividend paid 585 $\times$ 60 Retained earnings at 3		<u>(351)</u> 1034	(1)OF (1)OF	

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

		PUBLI			
Question		Ansv	wer		Marks
3(b)	The directors manage the company on behalf of th owners (shareholders) (1)	ie owners (	shareho	ders) (1). They are accountable and report to the	2
3(c)	Statement of fina	Z Lim ancial posit		December 2016	8
		\$			
	Non-current assets				
	Property, plant and equipment	<u>491 500</u> 491 500	(1)OF	(\$478000+21000 <b>(1)</b> -7500 <b>(1)</b> )	
	Current assets				
	Inventories	124 000			
	Trade receivables	187000	(1)	(\$217 000–30 000)	
	Cash and cash equivalents	<u>132000</u> 443000	( )	(*)	
	Total assets	<u>934 500</u>			
	Equity and liabilities Equity Ordinary shares of \$1 each Retained earnings Total equity	500 000 <u>164 500</u> 664 500		(\$210 000–29 000 <b>(1)</b> –9000 <b>(1)</b> –7500 <b>(1)</b> )	
	Current liabilities Trade payables Provision for compensation Taxation	188000 29000 <u>53000</u> 270000	(1)		
	Total equity and liabilities	<u>934 500</u>			

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)	<ul> <li>Advantages</li> <li>increase the credibility/reliability of accounts</li> <li>maybe helpful if Jack wants to apply for a bank loan/investment from 3<sup>rd</sup> parties</li> <li>help identify weaknesses in the internal procedures</li> </ul>	5
	<ul> <li>Disadvantages</li> <li>high cost of audit fee</li> <li>no segregation of ownership and management in Jack's business</li> <li>no need for audit as sole trader</li> </ul>	
	Max 3 marks for the advantages and Max 2 marks for the disadvantages	
	Total:	25

Question	Answer	Marks					
Question	Allower	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	1					
4(b)	Purchase consideration						
	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 (1) OF						
	Fair value of net assets taken over \$						
	Land and buildings450 000Plant and machinery120 000Motor vehicles60 000Inventory49 000Trade receivables52 000731 000731 000						
	692 000         (1)           Goodwill         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       28 000       (1)         Book value of net assets       828 000       10	4
	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       Alex       Brown       Brown       S	11
	Workings:         \$         \$           Purchase consideration         800 000         800 000           Cash         (127 500)         (127 500)           8% Debentures         Alex \$15 000÷8%         187 500 (1)           Brown \$10 000÷8%         125 000 (1)         (312 500)           Settled by ordinary shares         360 000	
	Alex \$360 000×60% 216 000 (1)OF Brown \$360 000×40% 144 000 (1)OF (360 000) 0	

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

Question	Answer	Marks
5(a)	Flexed budget for April \$  \$ Sales      270 000 (1) Direct labour   75 600 (1)	6
	Direct materials         65880         (1)           Variable overheads         18000         (1)           Fixed overheads         19300         (1)           Profit         91220         (1)OF	
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

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 × <b>(1 mark)</b>	3

Question			A	nswer					Marks
6(a)	Initial outlay One-off service cost Resale value	Year 0 \$ (125 000)	Year 1 \$ (1 000)	Year2 \$	Year 3 \$	Year 4 \$	Year 5 \$ 65 000	(1)OF } (1) both	
	Sales price increase Variable cost decrease Maintenance costs Total cash flows	(125 000)	10 000 20 000 (5 000) 24 000	10 000 20 000 (5 000) 25 000	10 000 20 000 (5 000) 25 000	10 000 20 000 (5 000) 25 000	10000 20000 (5000) 90000	(1) row (1) row (1) row	
6(b)	Year Net cash flo		24000	23000	23 000	23 000	<u>90 000</u>		
	\$ 1 24 000 2 25 000 3 25 000 4 25 000 5 90 000		000 00–\$99 000 : 4 years ( <b>'</b>		•		nth=3.47 r	nth	
6(c)	Simple to calculate/understand. Uses cash flows not profits so not corr Reduces risk by preferring early cash Useful as a first screening tool. Useful for capital rationing decisions to Better for liquidity–prefers early cash f (1 mark) × any 3 reasons, Max 3	flows/short ter	rm projects.		e cash quic	kly.			

			-						
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 \$	3
	Discounted cash flow	(125 000) <b>(1)OF</b>	21 816	20 650	18775	17 075	55 890	9206 (1)OF	
			~	∽ all {	ي۔ 5 years (1)	OF	~		
6(e)	$10\%$ (1)+ $\left[20-10(1)\times\frac{9206}{9206+24953}\right]$	( <b>10F)</b> ]=12.6	95% <b>(1)O</b>	F					2
<b>e</b> (6)									
6(f)	NPVBoth are positive but alternative IRRIRRFirst machine has PaybackPaybackFirst machine has CostCostFirst machine has First machine hasChoose the first machine (1)1 For decision + Maximum 3 for rest	the better/hig the better/sh the lower init	her IRR <b>(1</b> ) orter payba	ck (1)		s limited ca	pital availa	ble <b>(1)</b>	2
6(t) 6(g)	IRR First machine has Payback First machine has Cost First machine has Choose the first machine (1)	the better/hig the better/sh the lower init asons hey? (1)	her IRR <b>(1</b> ) orter payba	ck (1)		s limited ca	pital availa	ble <b>(1)</b>	