

#### **Cambridge International AS & A Level**

#### ACCOUNTING

Paper 3 A Level Structured Questions MARK SCHEME Maximum Mark: 150 9706/32 March 2020

Published

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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#### **Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

**GENERIC MARKING PRINCIPLE 3:** 

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

#### GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

#### GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Question			Answer	Marks
1(a)	T Limited Manufacturing account for year ende		er 2019	8
	Opening inventory	17 300		
	Purchases	200 400		
	Carriage inwards	6 600	(1)	
	Closing inventory	(18 700)		
	Cost of raw materials consumed	205 600	(1)	
	Direct wages	206 400		
	Direct expenses	8 600		
	Prime cost	420 600	(1)OF	
	Rent and rates <b>W1</b>	45 000	(1)	
	Repairs <b>W2</b>	13 500	}	
	Depreciation <b>W3</b>	32 000	}(1)	
		511 100		
	Opening work in progress	20 400	}	
	Closing work in progress	(21 500)	}(1)	
	Cost of production	510 000		
	Manufacturing profit	122 400	(1)OF	
	Transferred value	632 400	(1)	

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Question	Answer	Marks
1(a)	<b>W1</b> $(\$72000 + \$3000) \times \frac{3}{5} = \$45000$	
	<b>W2</b> $18000 \times \frac{3}{4} = 13500$	
	<b>W3</b> \$48000 $\times \frac{2}{3} = $ \$32000	
1(b)	T Limited Income statement for the year ended 31 December 2019 \$ \$	7
	Sales revenue782 000Less: cost of sales000 × 120%Opening inventory 55 000 × 120%66 000 (1)	
	Transfer value 632 400	
	Closing inventory (75 888)	
	<u>622512</u>	
	Gross profit 159 488 (1)OF	
	Manufacturing profit <u>122 400</u> (1)OF *	
	Administrative expenses W1116 700 (1)Carriage outwards16 300	
	Carriage outwards16 300Increase in unrealised profit W23 688 (2)OF	
	Profit for the year 145 200 (1)OF	
	W1 \$66200 + $($75000 \times \frac{2}{5})$ + $($18000 \times \frac{1}{4})$ + $($48000 \times \frac{1}{3})$ = \$116700	
	$W2 \frac{\$122400}{510000} = 24 \%$	
	$75888 \times \left(\frac{24}{124}\right)$ (1)OF - (\$55000 × 20%) = \$3688 (1)OF	
	*This profit figure in the income statement has to be the same as in the manufacturing account for the mark.	

Question	Answer	Marks
1(c)	\$	2
	Inventory: finished goods 75 888	
	Unrealised profit $\left(75888 \times \frac{24}{124}\right)$ 14 688 (1)OF	
	61 200 <b>(1)OF</b>	
1(d)	<ul> <li>Responses could include:</li> <li>prudence concept (1)</li> <li>profit/assets not overstated (1)</li> <li>realisation concept (1)</li> <li>profit is unrealised because goods have not been sold to customers (1)</li> <li>unrealised profit deducted from the transfer value of finished goods inventories, showing the cost of finished goods inventories in the statement of financial position (1)</li> <li>increase in unrealised profit is deducted from the profit in the income statement (1)</li> </ul>	5
	Max 5 Accept other valid points	
1(e)	<ul> <li>In favour of</li> <li>it can help to make more meaningful price comparisons (1)</li> <li>the manufacturing department may be more motivated to control costs (1)</li> </ul>	3
	<ul> <li>Against</li> <li>the process may be time consuming (1)</li> <li>the price of the outside supplier may fluctuate throughout the year (1)</li> </ul>	
	Max 1 mark for in favour of, 1 mark for against, 1 mark for decision Accept other valid points	-

Question	Answer				Marks
2(a)	Cafe trading account for year ended 31 December 2019				5
		\$	\$		
	Cafe sales		240 000		
	Opening inventory	13 000			
	Purchases	141 000			
	Closing inventory (difference)	(16 000)		(1)OF	
	Cost of sales		138 000	(1)OF	
	Gross profit W1		102 000	(3)OF	
	W1: $(\$240000 \times \frac{1}{4} \times 50\%)$ (1) + $(\$240000 \times \frac{3}{4} \times 40\%)$ (1) = \$102000 (1)OF				

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Question				Answer			Marks
2(b)		Receipts ar	nd pa	yments account			8
		\$			\$	-	
	Balance b/d	33 500		Cafe trade payables <b>W2</b>	137 800	(1)	
	Subscriptions <b>W1</b>	320 500	(2)	Cafe wages W3	51 000	(1)	
	Cafe sales	240 000	(1)	Administrative expenses	251 100		
				Furniture and fixtures	35 000	(2) W4	
			_	Balance c/d	119 100	_	
		594 000	_		594 000	_	
	Balance b/d	119 100	(1)0	F			
	<b>W1</b> \$322 000 + (\$3 800	) – \$2 600) <b>(1</b>	) + (\$	51 500 – \$4 200) <b>(1) =</b> \$320 5	00		
	<b>W2</b> \$26 400 + \$141 00	0 – \$29 600 :	=\$13	7 800			
	<b>W3</b> \$46 000 + \$5 000 =	\$51 000					
	<b>W4</b> (\$66 560 – \$48 200	)) <b>(1)</b> + \$16 6	40 = 9	\$35 000 (1)			

Question		Answer	Marks
2(c)	Income and Expenditure Account	Receipts and Payments Account	2
	revenue and expenditure	cash receipts and payments	
	accrual basis	cash basis	
	<ul> <li>can include non-cash item such as depreciation</li> </ul>	cash items only	
	include revenue expenditure	can include capital expenditure	
	1 mark × 2 differences Accept other valid points		
2(d)(i)	<ul> <li>Responses could include:</li> <li>covering more than one year (1)</li> <li>accrual concept (1)</li> <li>revenue matches general running expenses (1)</li> <li>capitalise donation (1)</li> <li>transfer to income and expenditure account over</li> </ul>	r a number of years <b>(1)</b>	4
	Max 4 Accept other valid points		
2(d)(ii)	<ul> <li>Responses could include:</li> <li>capital receipt credited to capital reserve (1)</li> <li>cannot be recognised in income and expenditure</li> <li>should be used for the purpose specified by the</li> <li>reserve debited when pool expenditure incurred</li> </ul>	donor (1)	3
	Max 3 Accept other valid points		

Question	Answer	Marks
2(e)	<ul> <li>Responses could include:</li> <li>purpose / objective of the club (not-for-profit organisation) is for social, athletic or charitable, etc, not for profit making (1)</li> <li>funds of the club must be held in trust for the club and can only be used in carrying out its objective / mission (1)</li> <li>the committee is not correct in distributing club surplus to the members (1)</li> </ul>	3
	Max 2 valid points plus further 1 mark for correct advice Accept other valid points	

Question					Answer	Marks
3(a)		Ahmed		Omar		6
		\$		\$		
	Plant and equipment	230 000		144 000		
	Motor vehicles	71 000		40 000		
	Inventories	52 500		34 400		
	Cash at bank	-		28 600		
	Trade receivables	58 000		52 000		
	Trade payables	(42 500)		(34 100)		
	Bank overdraft	(8 900)		_		
		360 100	(1)	264 900	(1)	
	Business value	400 000	(1)	300 000	(1)	
	Goodwill	39 900	(1)OF	35 100	(1)OF	

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Question		Answer	Marks
3(b)	Ahmed and O Statement of finance at 1 January Non-current assets	al position 2020 \$	6
	Plant and equipment Motor vehicles Goodwill	374 000 } 111 000 }(1) 75 000 (1)OF 560 000	
	Current assets Inventories Trade receivables Cash at bank	86 900 } 110 000 }(1) <u>19 700</u> (1) 216 600	
	Total assets	776 600	
	Capital and liabilities Capital – Ahmed Capital – Omar Current liabilities Trade payables Total capital and liabilities	400 000 } <u>300 000</u> ](1) <u>700 000</u> (1) 776 600	

Question	Answer	Marks
3(c)	Ahmed $400000 - (575000 \times \frac{3}{5}) = 5355000$ (1)OF Omar $5300000 - (575000 \times \frac{2}{5}) = 5270000$ (1)OF	2
3(d)	Responses could include: • intangible asset (1) • excess of a business's value over its total net assets value (1) • usually occur in acquisition of business or change in partnership (1) • business image, strong customer base, good relationship with suppliers, good location etc (1) Max 3 Accept other valid points.	3
3(e)	<ul> <li>Response could include:</li> <li>money measurement (1) – goodwill is recorded as an asset as a result of the acquisition of a business, not a merger, where the purchase consideration is quantifiable in monetary terms (1)</li> <li>prudence (1) – value of asset is not overstated (1)</li> <li>1 mark for one accounting concept identified up to a maximum of two, plus further 1 mark for explanation / development</li> </ul>	4
3(f)	Responses could include: Loan from partners Advantages: • time and cost saved (1) • no collateral required (1) • potentially lower interest rate (1) • repayment of loan is more flexible (1) Disadvantages: • partners may not have enough funds (1) • partners don't want to lend as they have already contributed capital (1)	4

Question	Answer	Marks
3(f)	<ul> <li>Bank loan <ul> <li>Advantages:</li> <li>interest rate is the market rate which is objective (1)</li> <li>may be able to raise more money (1)</li> <li>Disadvantages</li> <li>loan interest may be higher (1)</li> <li>collateral may be required (1)</li> <li>application for loan may be costly / time-consuming (1)</li> <li>bank may turn down the application (1)</li> <li>the business is perceived as risky as long-term liabilities increase (1)</li> </ul> </li> </ul>	
	Max 1 mark for advantage and Max 1 mark for disadvantage of each of the option. Max 2 for each option Accept other valid points	

Question		Answer	Marks
4(a)(i)	$\frac{(588000-48000)(\textbf{1})}{2000000}$	\$0.27 <b>(1)</b>	2
4(a)(ii)	\$3.2 \$0.27 <b>OF</b>	11.85 <b>(1)OF</b>	1
4(a)(iii)	\$0.27 <b>OF</b> \$0.12	2.25 times (1)OF	1
4(a)(iv)	\$0.12 \$3.20	3.75% <b>(1)</b>	1

Question	Answer	Marks
4 (b)	<ul> <li>Responses could include:</li> <li>smaller proportion of profit is distributed to the shareholders (1)</li> <li>want to maintain higher retained earnings (1)</li> <li>there may be capital commitments in the future (1)</li> <li>may attract investors (1)</li> </ul>	3
	Max 3 Accept other valid points	
4(c)(i)	Liability is a present obligation (1) arising from past events (1), the settlement of which is expected to result in an outflow from the entity of resources (1) embodying economic benefits.	2
4(c)(ii)	Provision is a liability of uncertain timing (1) and amount (1) to cover a probable future event. (1) Max 2	2
4(c)(iii)	Contingent liability is a possible obligation that arises from past events (1) and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events (1) not wholly within the control of the entity.(1) Max 2	2
4(d)	According to IAS 37 (1), it is a liability (1) because it is the present obligation (being sued) arising from the past event (the sale contract) (1) and it is probable (more than 50%) that there is outflow of resources (1). J plc should make a provision of \$20 000 (1) resulting in a reduction a profit of \$20 000 (1) and an increase in current liabilities of \$20 000. (1) Max 6	6

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Question	Answer	Marks
4(e)	Responses could include:	5
	Rights issue:         • share capital is a more permanent form of capital (1)         • rights issue is only limited to existing shareholders (1)         • control of the company maintained (1)         • dividend payments are discretionary should profits fall (1)         Debenture:         • funds may be generated more quickly (1)         • can raise the full amount of funds with greater certainty (1)         • no voting rights (1)         • interest must be paid / decreases profit (1)         • loan will have to be repaid (1)         Max 2 for rights issue         Max 2 for debentures         1 mark for decision	
	Accept other valid points	

Question	Answer	Marks
5(a)(i)	<ul> <li>Responses could include:</li> <li>financial plan of the company as a whole for the coming year (1)</li> <li>summarising the plans the company uses to achieve its strategic goals (1)</li> <li>an aid to coordinate the budgets of various departments (1)</li> </ul> Max 2	2
5(a)(ii)	Responses could include sales, labour, trade receivables, trade payables and cash (1)	2
	Max 2	

Question					Answer			Marks
5(b)(i)					Wor	king		4
		Feb	March		A	oril		
	Sales	4000	4800	(1 both)	4	4400		
	Closing inventory W1	960	880	(1 both)		1000		
		4960	5680			5400		
	Opening inventory W2	(800)	(960)	(1 both)		(880)		
	Units to be produced	4160	4720	(1OF both	ı) <i>4</i>	4520		
	<b>W1</b> 4800 × 20% = 960 4400 × 20% = 880 <b>W2</b> 4000 × 20% = 800							
5(b)(ii)							Working	6
			Feb		March		April	
	Units to be produced		4 160	OF	4 720	OF	4 520	
	3 kilos per unit		×3		×3	<u> </u>	×3	
	Raw materials required (	(kilos)	12 480		14 160	(1 OF both)	13 560	
	Ending inventory <b>W1</b>		1 4 1 6	(1)OF	1 356	(1)OF		
			13 896		15 516			
	Opening inventory W2		(1 248)	(1)OF	(1 4 1 6)	(1)OF		
	Direct materials to be pu	rchased	12 648		14 100	(1 OF both)		

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Question			Answer	Marks
5(b)(ii)	<b>W1</b> 14 160 × 10% = 1416 13 560 × 10% = 1356 <b>W2</b> 12 480 × 10% = 1248			
5(c)		Feb		4
		\$		
	Opening inventory <b>W1</b>	4 056	(1)OF	
	Direct materials purchased W2	44 268	(1)OF	
	Closing inventory W3	(4 956)	(1)OF	
	Cost of raw materials consumed	43 368	(1)OF	
	W1 1 248 OF × \$3.25 = \$ 4 056 W2 12 648 OF × \$3.50 = \$44 268 W3 1 416 OF × \$3.50 = \$ 4 956			
5(d)	Responses could include: FIFO : • earlier material prices (lower price • closing inventory valued by the lat AVCO • average cost (average of lower pr	test prices (hig		4

Question	Answer	Marks
5(d)	FIFO produces a higher inventory value than AVCO. Hence cost of raw materials consumed (cost of sales) using the FIFO method will be lower than when using AVCO. Profit using FIFO method will be higher than when using AVCO.	
	<ol> <li>mark for explaining FIFO</li> <li>mark for explaining AVCO</li> <li>mark for comparing the cost of raw materials consumed (cost of sales) or inventory value of both methods</li> <li>mark for comparing the profit of both methods</li> </ol>	-
5(e)	<ul> <li>Responses could include:</li> <li>budget is the blue print guiding the company (1)</li> <li>budget help coordinating among the needs of various department (1)</li> <li>budget motivate people (1)</li> <li>budgetary control by comparing the budget with the actual result (1)</li> <li>difficult to prepare budget in a changeable economy (1)</li> <li>time consuming and costly to revise budget frequently (1)</li> </ul>	3
	Max 1 mark for valid point 'for', Max 1 mark for valid point 'against' plus further 1 mark for decision. Accept other valid points	-

Question					Answer	Ма
6(a)(i)		Receipts	Payments	Net		
		\$	\$	\$		
	Year 1	260 000	90 000	170 000		
	Year 2	290 000	120 000	170 000		
	Year 3	330 000	140 000	190 000		
	Year 4	130 000	80 000	50 000		

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Question					Answer	Marks
6(a)(i)	i) 2 years (1) + $\frac{(480000 - 340000)(1)}{190000}$ 2 years 8.84 months => 2 years 9 months or 33 months (1)OF					
6(a)(ii)		Net \$	10%	PV \$		4
	Year 0	(480 000)	1	(480 000)	(1)	
	Year 1	170 000	0.909	154 530	}	
	Year 2	170 000	0.826	140 420	}(1)	
	Year 3	190 000	0.751	142 690	}	
	Year 4	50 000	0.683	34 150	(1)	
				(8 2 1 0)	(1)OF	

Question					Answer	Marks		
6(a)(iii)		Net	7%	PV		4		
		\$		\$				
	Year 0	(480 000)	1	(480 000)				
	Year 1	170 000	0.935	158 950				
	Year 2	170 000	0.873	148 4 10				
	Year 3	190 000	0.816	155 040				
	Year 4	50 000	0.763	38 150	_			
				20 550	(1)			
6(b)	``````````````````````````````````````	$\frac{3\% \times 20550}{28760} \Big) (1)$ should not buy			egative NPV (1) and IRR is less than the cost of capital. (1)			
	W Limited could buy the machine because the payback period is one year and three months before the useful life which is 4 years. (1)							
	Max 3 marks for justifications 1 mark for decision							

Question					А	nswer	Marks	
6(c)	Cost of machine is now \$400 000 (1) $\left(\frac{$480000 \times 100}{120}\right)$							
		Net	10%	PV				
		\$		\$				
	Year 0	(400 000)	1	(400 000)				
	Year 1	170 000	0.909	154 530				
	Year 2	170 000	0.826	140 420				
	Year 3	190 000	0.751	142 690				
	Year 4	50 000	0.683	34 150				
				71 790	(1)OF			
	Alt	ernative metho	d:					
					\$			
	P	revious NPV (\$	480 000)		(8 210)			
	Saving on cost				80 000	(1)		
	R	evised NPV			71 790	(1)OF		
	Payback p	period is :						
	2 years +	(400000 – 340 190000	000)(1)					
		8 months => 2 ors decide to b				e NPV (1) and the payback period is shortened. (1)		

Question	Answer	Marks
6(d)	<ul> <li>Net present value</li> <li>considers time value of money (NPV of -\$8210 with tariff versus NPV of \$71790 without tariff) (1)</li> <li>considers the whole life of asset, i.e. 4 years (1)</li> <li>considers the cash flows (1)</li> </ul>	
	<ul> <li>Payback period</li> <li>easy to calculate and understood (1)</li> <li>need to know when the investment can be recouped (33 months with tariff versus 28 months without tariff) (1)</li> </ul>	
	Max 2 marks for NPV and Max 2 marks for payback period	-