



Cambridge International AS & A Level

ACCOUNTING

9706/31

Paper 3 Structured Questions

May/June 2022

MARK SCHEME

Maximum Mark: 150

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.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the May/June 2022 series for most Cambridge IGCSE, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

This document consists of **21** printed pages.

PUBLISHED**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.

**Social Science-Specific Marking Principles
(for point-based marking)****1 Components using point-based marking:**

- Point marking is often used to reward knowledge, understanding and application of skills. We give credit where the candidate's answer shows relevant knowledge, understanding and application of skills in answering the question. We do not give credit where the answer shows confusion.

From this it follows that we:

- a** DO credit answers which are worded differently from the mark scheme if they clearly convey the same meaning (unless the mark scheme requires a specific term)
- b** DO credit alternative answers/examples which are not written in the mark scheme if they are correct
- c** DO credit answers where candidates give more than one correct answer in one prompt/numbered/scaffolded space where extended writing is required rather than list-type answers. For example, questions that require n reasons (e.g. State two reasons ...).
- d** DO NOT credit answers simply for using a 'key term' unless that is all that is required. (Check for evidence it is understood and not used wrongly.)
- e** DO NOT credit answers which are obviously self-contradicting or trying to cover all possibilities
- f** DO NOT give further credit for what is effectively repetition of a correct point already credited unless the language itself is being tested. This applies equally to 'mirror statements' (i.e. polluted/not polluted).
- g** DO NOT require spellings to be correct, unless this is part of the test. However spellings of syllabus terms must allow for clear and unambiguous separation from other syllabus terms with which they may be confused (e.g. Corrasion/Corrosion)

2 Presentation of mark scheme:

- Slashes (/) or the word 'or' separate alternative ways of making the same point.
- Semi colons (;) bullet points (•) or figures in brackets (1) separate different points.
- Content in the answer column in brackets is for examiner information/context to clarify the marking but is not required to earn the mark (except Accounting syllabuses where they indicate negative numbers).

3 Calculation questions:

- The mark scheme will show the steps in the most likely correct method(s), the mark for each step, the correct answer(s) and the mark for each answer
- If working/explanation is considered essential for full credit, this will be indicated in the question paper and in the mark scheme. In all other instances, the correct answer to a calculation should be given full credit, even if no supporting working is shown.
- Where the candidate uses a valid method which is not covered by the mark scheme, award equivalent marks for reaching equivalent stages.
- Where an answer makes use of a candidate's own incorrect figure from previous working, the 'own figure rule' applies: full marks will be given if a correct and complete method is used. Further guidance will be included in the mark scheme where necessary and any exceptions to this general principle will be noted.

4 Annotation:

- For point marking, ticks can be used to indicate correct answers and crosses can be used to indicate wrong answers. There is no direct relationship between ticks and marks. Ticks have no defined meaning for levels of response marking.
- For levels of response marking, the level awarded should be annotated on the script.
- Other annotations will be used by examiners as agreed during standardisation, and the meaning will be understood by all examiners who marked that paper.

ANNOTATIONS

The following annotations are used in marking this paper and should be used by examiners.

Annotation	Use or meaning
✓	Correct and relevant point made in answering the question.
×	Incorrect point or error made.
LNK	Two statements are linked.
REP	Repeat
A	An extraneous figure
N0	No working shown
AE	Attempts evaluation
R1	Required item 1
R2	Required item 2
OF	Own figure
EVAL	Evaluation
NAQ	Not answered question
BOD	Benefit of the doubt given.
SEEN	Noted but no credit given
Highlight	Highlight
Off page Comment	Off page comment

Question	Answer	Marks																																				
1(a)	<table border="1" data-bbox="349 280 1561 544"> <tr> <td data-bbox="349 280 956 344">Not-for-profit organisations</td> <td data-bbox="956 280 1561 344">Limited company</td> </tr> <tr> <td data-bbox="349 344 956 408">Income and expenditure account</td> <td data-bbox="956 344 1561 408">Income statement</td> </tr> <tr> <td data-bbox="349 408 956 472">Surplus / deficit</td> <td data-bbox="956 408 1561 472">Profit / loss</td> </tr> <tr> <td data-bbox="349 472 956 544">Accumulated fund</td> <td data-bbox="956 472 1561 544">Equity</td> </tr> </table> <p data-bbox="349 584 1077 616">1 mark for each difference up to a maximum of three</p> <p data-bbox="349 647 734 679">Accept other valid answers.</p>	Not-for-profit organisations	Limited company	Income and expenditure account	Income statement	Surplus / deficit	Profit / loss	Accumulated fund	Equity	3																												
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1(b)	<p data-bbox="562 719 1285 751">Café trading account for year ended 31 December 2021</p> <table data-bbox="349 759 1435 1174"> <tr> <td></td> <td style="text-align: center;">\$</td> <td style="text-align: center;">\$</td> <td></td> </tr> <tr> <td>Sales \$43 500 × 180%</td> <td></td> <td style="text-align: right;">78 300</td> <td>(1)OF</td> </tr> <tr> <td>Opening inventory</td> <td style="text-align: right;">9 500</td> <td></td> <td></td> </tr> <tr> <td>Purchases W1</td> <td style="text-align: right;">44 200</td> <td></td> <td>(1)</td> </tr> <tr> <td>Closing inventory</td> <td style="text-align: right;"><u>(10 200)</u></td> <td></td> <td></td> </tr> <tr> <td>Cost of sales</td> <td></td> <td style="text-align: right;"><u>43 500</u></td> <td>(1)OF</td> </tr> <tr> <td>Gross profit</td> <td></td> <td style="text-align: right;">34 800</td> <td></td> </tr> <tr> <td>Wages</td> <td></td> <td style="text-align: right;"><u>22 000</u></td> <td></td> </tr> <tr> <td>Profit for the year</td> <td></td> <td style="text-align: right;"><u>12 800</u></td> <td>(1)OF</td> </tr> </table> <p data-bbox="349 1206 1061 1238">W1 Purchases \$42 000 + \$13 600 – \$11 400 = \$44 200</p>		\$	\$		Sales \$43 500 × 180%		78 300	(1)OF	Opening inventory	9 500			Purchases W1	44 200		(1)	Closing inventory	<u>(10 200)</u>			Cost of sales		<u>43 500</u>	(1)OF	Gross profit		34 800		Wages		<u>22 000</u>		Profit for the year		<u>12 800</u>	(1)OF	4
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1(e)	<p>Accrual / matching concept should be applied. (1). Life membership fee should be spread over a number of years. (1). The number of years to be spread depends on the accounting policy of the club. (1)</p> <p>Max 3</p> <p>Accept other valid answers.</p>	3																																												

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Question	Answer	Marks
1(f)	<p>Café wages are saved leading to higher profit from sale of refreshment (1) More space is released for club's other activities (1) Can offer snack and drinks 24/7 (1) Should consider the cost of vending machines (1) Welcoming atmosphere created by café staff (1) Food and drinks offered are fresher (1) Food and drinks are made to special needs, e.g. allergies (1) Redundancy payment if café staff are fired (1) Need for comparison between profitability and profit margins on vending machines and café. (1)</p> <p>1 mark for decision</p> <p>Accept other valid answers.</p>	5

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Question	Answer	Marks																																																
2(a)	<p style="text-align: center;">Revised statement of financial position at 31 December 2021</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: right;">\$</th> <th style="width: 20%; text-align: right;">\$</th> </tr> </thead> <tbody> <tr> <td>Non-current assets</td> <td></td> <td></td> </tr> <tr> <td>Property, plant and equipment W1</td> <td></td> <td style="text-align: right;">794 500 (3)</td> </tr> <tr> <td>Current assets</td> <td></td> <td></td> </tr> <tr> <td>Inventory W2</td> <td style="text-align: right;">76 500 (3)</td> <td></td> </tr> <tr> <td>Trade receivables (\$164 000-\$12 000)</td> <td style="text-align: right;">152 000 (1)</td> <td></td> </tr> <tr> <td>Cash and cash equivalents</td> <td style="text-align: right; border-bottom: 1px solid black;">86 000</td> <td style="text-align: right;">314 500</td> </tr> <tr> <td>Total assets</td> <td></td> <td style="text-align: right; border-bottom: 3px double black;">1 109 000</td> </tr> <tr> <td>Equity</td> <td></td> <td></td> </tr> <tr> <td>Ordinary share capital (\$1 shares)</td> <td style="text-align: right;">600 000</td> <td></td> </tr> <tr> <td>Revaluation reserve</td> <td style="text-align: right;">146 000 (1)</td> <td></td> </tr> <tr> <td>Retained earnings W3</td> <td style="text-align: right; border-bottom: 1px solid black;">153 000 (4)</td> <td style="text-align: right;">899 000</td> </tr> <tr> <td>Current liabilities</td> <td></td> <td></td> </tr> <tr> <td>Trade payables</td> <td style="text-align: right;">128 000</td> <td></td> </tr> <tr> <td>Other payables W4</td> <td style="text-align: right; border-bottom: 1px solid black;">82 000 (2)</td> <td style="text-align: right;">210 000</td> </tr> <tr> <td>Total equity and liabilities</td> <td></td> <td style="text-align: right; border-bottom: 3px double black;">1 109 000</td> </tr> </tbody> </table>		\$	\$	Non-current assets			Property, plant and equipment W1		794 500 (3)	Current assets			Inventory W2	76 500 (3)		Trade receivables (\$164 000-\$12 000)	152 000 (1)		Cash and cash equivalents	86 000	314 500	Total assets		1 109 000	Equity			Ordinary share capital (\$1 shares)	600 000		Revaluation reserve	146 000 (1)		Retained earnings W3	153 000 (4)	899 000	Current liabilities			Trade payables	128 000		Other payables W4	82 000 (2)	210 000	Total equity and liabilities		1 109 000	14
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2(b)	<p>Item 3</p> <p>IAS 37 Provisions, contingent liabilities and contingent assets (1)</p> <p>The success of the claim is not probable (1) and therefore there is no need to make provision (1). However, it is necessary to disclose the claim as a note to the financial statements. (1)</p> <p>Provision for legal cost \$8 000 should be made (1) as it is a liability (1) of uncertain timing or amount. (1)</p>	7
2(c)(i)	<p>Events after the reporting period are those events, favourable and unfavourable, occur between the end of the reporting period (1) and the date when the financial statements are authorised for issue. (1)</p>	2
2(c)(ii)	<p>Adjusting events – those that provide evidence of conditions that existed at the end of the reporting period (1)</p>	1
2(c)(iii)	<p>Non-adjusting events – those that are indicative of conditions that arose after the reporting period. (1)</p>	1

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3(a)	<p style="text-align: center;">\$</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">At 1 January 2021</td> <td style="text-align: right;">204 000</td> <td></td> </tr> <tr> <td>Profit for the year</td> <td style="text-align: right;">198 000</td> <td>(1)OF</td> </tr> <tr> <td>Dividend paid $450\,000 \times \\$0.30$</td> <td style="text-align: right;">(135 000)</td> <td>(1)</td> </tr> <tr> <td>Bonus issue ($\\$400\,000 \times 1/8 = \\$44\,000$)</td> <td style="text-align: right;">(6 000)</td> <td>(1)</td> </tr> <tr> <td>General reserve</td> <td style="text-align: right;"><u>(30 000)</u></td> <td>(1)</td> </tr> <tr> <td>At 31 December 2021</td> <td style="text-align: right;"><u>231 000</u></td> <td></td> </tr> </table>	At 1 January 2021	204 000		Profit for the year	198 000	(1)OF	Dividend paid $450\,000 \times \$0.30$	(135 000)	(1)	Bonus issue ($\$400\,000 \times 1/8 = \$44\,000$)	(6 000)	(1)	General reserve	<u>(30 000)</u>	(1)	At 31 December 2021	<u>231 000</u>		4
At 1 January 2021	204 000																			
Profit for the year	198 000	(1)OF																		
Dividend paid $450\,000 \times \$0.30$	(135 000)	(1)																		
Bonus issue ($\$400\,000 \times 1/8 = \$44\,000$)	(6 000)	(1)																		
General reserve	<u>(30 000)</u>	(1)																		
At 31 December 2021	<u>231 000</u>																			
3(b)(i)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Price earnings ratio</td> <td></td> <td></td> </tr> <tr> <td>Earnings per share $\\$198\,000/450\,000$</td> <td style="text-align: right;">\$0.44</td> <td>(1)OF</td> </tr> <tr> <td> </td> <td></td> <td></td> </tr> <tr> <td>$\\$4.52/\\0.44</td> <td style="text-align: right;">10.27</td> <td>(1)OF</td> </tr> </table>	Price earnings ratio			Earnings per share $\$198\,000/450\,000$	\$0.44	(1)OF	 			$\$4.52/\0.44	10.27	(1)OF	3						
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3(b)(iii)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Gearing ratio</td> <td></td> <td></td> </tr> <tr> <td>$\\$150\,000/(\\$711\,000 + \\$150\,000) \times 100$</td> <td style="text-align: right;">17.42%</td> <td>(1)</td> </tr> </table>	Gearing ratio			$\$150\,000/(\$711\,000 + \$150\,000) \times 100$	17.42%	(1)	2												
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3(b)(v)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Return on capital employed</td> <td></td> <td></td> </tr> <tr> <td>$(\\$198\,000 \text{ OF} + \\$13\,500) / (\\$711\,000 + \\$150\,000) \times 100$</td> <td style="text-align: right;">24.56%</td> <td>(1)OF</td> </tr> </table>	Return on capital employed			$(\$198\,000 \text{ OF} + \$13\,500) / (\$711\,000 + \$150\,000) \times 100$	24.56%	(1)OF	2												
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$(\$198\,000 \text{ OF} + \$13\,500) / (\$711\,000 + \$150\,000) \times 100$	24.56%	(1)OF																		

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Question	Answer	Marks
3(c)	<p>A highly geared company is a company which has a higher proportion of debt (1) compared to its share capital. (1) This indicates that the company has a very high financial risk in terms of default in repayment of debt and high level of interest expenses. (1)</p> <p>Max 2</p> <p>Accept other valid answers.</p>	2
3(d)	<p>The earnings per share for 2020 is \$0.39 (\$3.64/9.27) (1) There is an increase of 12.82% in earnings per share from \$0.39 to \$0.44 (1) The share price has increased (1) by a greater proportion than the earnings (1) as the investors have confidence in E plc (1)</p> <p>Max 3</p> <p>Accept OF answers.</p>	3
3(e)	<p>Profit for the year with the debenture will be lower by the amount of the interest (1) The interest has to be paid whether the company made a profit or not (1) The company may need to provide a security for the debenture (1) Issuing debenture will increase gearing (1) If the shares had been issued the dividends would be at the discretion of the directors (1) The issue of shares would be a permanent capital whereas debenture would have to be repaid (1) Issuing ordinary shares dilutes ownership (1)</p> <p>Max 4</p> <p>1 mark for decision.</p> <p>Accept other valid answers.</p>	5

https://xtremepape.rs/

Question	Answer	Marks																																																																											
4(a)	<p style="text-align: center;">Memorandum joint venture account</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%; text-align: center;">\$</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">\$</td> <td style="width: 20%;"></td> </tr> <tr> <td>Purchases of shirts</td> <td style="text-align: right;">90 000</td> <td style="text-align: center;">}</td> <td>Cash sales</td> <td style="text-align: right;">21 000 (1)</td> </tr> <tr> <td>Carriage</td> <td style="text-align: right;">1 250</td> <td style="text-align: center;">}</td> <td>Credit sales</td> <td style="text-align: right;">129 000 (1)</td> </tr> <tr> <td>Insurance</td> <td style="text-align: right;">800</td> <td style="text-align: center;">}(1)</td> <td></td> <td></td> </tr> <tr> <td>Storage</td> <td style="text-align: right;">2 000</td> <td style="text-align: center;">}</td> <td></td> <td></td> </tr> <tr> <td>Use of office equipment</td> <td style="text-align: right;">7 000</td> <td style="text-align: center;">}(1)</td> <td></td> <td></td> </tr> <tr> <td>Packing</td> <td style="text-align: right;">1 650</td> <td style="text-align: center;">}</td> <td></td> <td></td> </tr> <tr> <td>Advertising</td> <td style="text-align: right;">4 400</td> <td style="text-align: center;">}</td> <td></td> <td></td> </tr> <tr> <td>Salespeople salaries</td> <td style="text-align: right;">8 000</td> <td style="text-align: center;">}(1)</td> <td></td> <td></td> </tr> <tr> <td>Discount allowed</td> <td style="text-align: right;">1 000</td> <td style="text-align: center;">}</td> <td></td> <td></td> </tr> <tr> <td>Irrecoverable debt</td> <td style="text-align: right;">3 000</td> <td style="text-align: center;">}(1)</td> <td></td> <td></td> </tr> <tr> <td>Profit shared:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Adam</td> <td style="text-align: right;">15 450</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mary</td> <td style="text-align: right;">15 450</td> <td style="text-align: center;">(1)OF</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">150 000</td> <td></td> <td></td> <td style="text-align: right; border-top: 1px solid black;">150 000</td> </tr> </table>		\$		\$		Purchases of shirts	90 000	}	Cash sales	21 000 (1)	Carriage	1 250	}	Credit sales	129 000 (1)	Insurance	800	}(1)			Storage	2 000	}			Use of office equipment	7 000	}(1)			Packing	1 650	}			Advertising	4 400	}			Salespeople salaries	8 000	}(1)			Discount allowed	1 000	}			Irrecoverable debt	3 000	}(1)			Profit shared:					Adam	15 450				Mary	15 450	(1)OF				150 000			150 000	7
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4(c)	<p>Adam He earns an extra profit of \$15 450 (1), a return of 17.17% of investing \$90 000 within a period of less than 2 months (1)</p> <p>Mary Apart from earning profit of \$15 450, she also receives a total of \$9 000 (1) for hiring her warehouse and office facilities. She can utilize her resource to earn more income. (1)</p> <p>1 mark for identification of basic point for each of Adam and Mary and 1 further mark for development.</p> <p>Accept other valid answers.</p>	4																																																												

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Question	Answer			Marks												
4(d)	<table border="1"> <tr> <td data-bbox="349 213 707 264"></td> <td data-bbox="723 213 1272 264">Joint venture</td> <td data-bbox="1276 213 1825 264">Consignment</td> </tr> <tr> <td data-bbox="349 268 707 312">Relationship</td> <td data-bbox="723 268 1272 312">Temporary partnership</td> <td data-bbox="1276 268 1825 312">Principal and agent</td> </tr> <tr> <td data-bbox="349 316 707 392">Profit sharing</td> <td data-bbox="723 316 1272 392">Profit shared between the parties</td> <td data-bbox="1276 316 1825 392">Only principal gets the profit, agent is only entitled to commission</td> </tr> <tr> <td data-bbox="349 395 707 440">Ownership of inventory</td> <td data-bbox="723 395 1272 440">Either party can control the inventory</td> <td data-bbox="1276 395 1825 440">Principal is the sole owner</td> </tr> </table>		Joint venture	Consignment	Relationship	Temporary partnership	Principal and agent	Profit sharing	Profit shared between the parties	Only principal gets the profit, agent is only entitled to commission	Ownership of inventory	Either party can control the inventory	Principal is the sole owner			3
	Joint venture	Consignment														
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Profit sharing	Profit shared between the parties	Only principal gets the profit, agent is only entitled to commission														
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1 mark for each difference up to a maximum of three																
4(e)	<p>Long-term commitment (1) which therefore requires a capital outlay (1)</p> <p>Adam is not experienced in trading (1) and may find it difficult to purchase goods from bankrupt sources (1)</p> <p>He may be distracted from his major business (1) by the demands of dealing with partnership (1)</p> <p>2 points x 2 marks</p> <p>Accept other valid answers.</p>			4												

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Question	Answer	Marks																																
5(a)	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Product S</th> <th style="width: 20%; text-align: center;">Product P</th> <th style="width: 30%;"></th> </tr> <tr> <td></td> <th style="text-align: center;">\$</th> <th style="text-align: center;">\$</th> <td></td> </tr> </thead> <tbody> <tr> <td>Direct materials</td> <td style="text-align: right;">8 }</td> <td style="text-align: right;">17 }</td> <td>}(1) row</td> </tr> <tr> <td>Direct labour</td> <td style="text-align: right;">60 }</td> <td style="text-align: right;">108 }</td> <td>}(1) row</td> </tr> <tr> <td>Factory overheads W1</td> <td style="text-align: right; border-top: 1px solid black;">10 }</td> <td style="text-align: right; border-top: 1px solid black;">15 }</td> <td>}(3) row</td> </tr> <tr> <td>Total cost per unit</td> <td style="text-align: right;">78 }</td> <td style="text-align: right;">140 }</td> <td>}(1)OF row</td> </tr> <tr> <td>Mark-up</td> <td style="text-align: right; border-top: 1px solid black;">39 }</td> <td style="text-align: right; border-top: 1px solid black;">70 }</td> <td>}(1)OF</td> </tr> <tr> <td>Selling price</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">117 }</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">210 }</td> <td>}(1)OF row</td> </tr> </tbody> </table> <p>W1 Total labour hours $24\,000 \times 4 + 15\,000 \times 6 = 186\,000$ $\\$465\,000 / 186\,000 = \\2.50 (1) per labour hour $\\$2.50 \times 4 = \\10 (1) $\\$2.50 \times 6 = \\15 (1)</p>		Product S	Product P			\$	\$		Direct materials	8 }	17 }	}(1) row	Direct labour	60 }	108 }	}(1) row	Factory overheads W1	10 }	15 }	}(3) row	Total cost per unit	78 }	140 }	}(1)OF row	Mark-up	39 }	70 }	}(1)OF	Selling price	117 }	210 }	}(1)OF row	8
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5(b)	<p>Activity based costing assigns costs to products based on the activities that consume the resources (1) Activities are used as cost pools and costs are allocated to products using a cost driver (1) Cost driver is the factor that has a direct cause and effect relationship with the resources consumed. (1)</p> <p>Max 3</p> <p>Accept other valid answers.</p>	3																																

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Question	Answer		Marks	
5(c)	Product S Product P		9	
	\$ \$			
	Direct materials	192 000 }		255 000 }
	Direct labour	1 440 000 }		1 620 000 } (1)
	Factory overheads W1	<u>346 800</u>		<u>118 200</u> (4) row
	Total cost	1 978 800		1 993 200 (1)OF row
	Total cost per unit	82.45		132.88 (1)OF row
	Mark-up	<u>41.23</u>		<u>66.44</u> (1)OF row
	Selling price	<u>123.68</u>		<u>199.32</u> (1)OF row
	W1			
	\$			\$
	Purchasing materials	90 000		30 000 (1) row
	Machine running	108 000		54 000 (1) row
Machine setups	60 000	12 000 (1) row		
Inspecting	<u>88 800</u>	<u>22 200</u> (1) row		
	<u>346 800</u>	<u>118 200</u>		
$\$120\,000 \times (24/32) = \$90\,000$; $\$120\,000 \times (8/32) = \$30\,000$				
$\$162\,000 \times (36\,000/54\,000) = \$108\,000$; $\$162\,000 \times (18\,000/54\,000) = \$54\,000$				
$\$72\,000 \times (40/48) = \$60\,000$; $\$72\,000 \times (8/48) = \$12\,000$				
$\$110\,000 \times (400/500) = \$88\,800$; $\$110\,000 \times (100/500) = \$22\,200$				

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Question	Answer	Marks
5(d)	<p>For (Max 2) ABC provides more accurate/realistic cost information. Before ABC, overhead per unit for Product P (\$15) is higher than Product S (\$10); after ABC, overhead per unit for Product S (\$14.45) is higher than Product P (\$7.88)(1) Accurate cost information results in better pricing decision. Before ABC, selling price per unit for Product S and Product P is \$117 and \$210 respectively. After ABC, selling price per unit for Product S and Product P is \$123.68 and \$199.32. Selling price of Product S increase because it has higher overhead per unit after adopting ABC.(1)</p> <p>Against (Max 2) ABC is costly to implement, i.e. it needs specialists and staff require training. (1) ABC is time consuming (1)</p> <p>1 mark for decision</p> <p>Accept other valid answers.</p>	5

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Question	Answer	Marks																								
6(a)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Sales</td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: right;">420 000</td> <td style="width: 55%;"></td> </tr> <tr> <td>Direct materials</td> <td style="text-align: right;">36 000</td> <td></td> <td></td> </tr> <tr> <td>Direct labour</td> <td style="text-align: right;">216 000</td> <td></td> <td></td> </tr> <tr> <td>Fixed overheads</td> <td style="text-align: right;"><u>72 000</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;"><u>(324 000) (1)</u></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;"><u>96 000 (1) OF</u></td> <td></td> </tr> </table>	Sales		420 000		Direct materials	36 000			Direct labour	216 000			Fixed overheads	<u>72 000</u>					<u>(324 000) (1)</u>				<u>96 000 (1) OF</u>		2
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6(b)(i)	<p>Sales price variance $(\\$72 - \\$70) \times 5\,800 = \\$11\,600$ (1) F (1)</p>	2																								
6(b)(ii)	<p>Sales volume variance Standard profit $(\\$70 - \\$6 - \\$36 - \\$12) = \\$16$ (1) $(6\,000 - 5\,800) \times \\$16 = \\$3\,200$ (1) OF A (1)</p>	3																								
6(b)(iii)	<p>Direct material total variance $(5\,800 \times \\$6) - \\$35\,113 = \\$313$ (1) A (1)</p>	2																								
6(b)(iv)	<p>Direct labour total variance $(5\,800 \times 36) - \\$221\,760 = \\$12\,960$ (1) A (1)</p>	2																								
6(b)(v)	<p>Fixed overhead volume variance Overhead absorption rate \$4 $(\\$12/3)$ per labour hour $(6\,000 - 5\,800) \times 3 \text{ hours} \times \\$4 = \\$2\,400$ (1) A(1)</p> <p>Alternative answer $\\$72\,000 - (5\,800 \times \\$12) = \\$2\,400$ (1) A(1)</p>	2																								
6(b)(vi)	<p>Fixed overhead expenditure variance $\\$72\,000 - \\$70\,400 = \\$1\,600$ (1) F (1)</p>	2																								

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Question	Answer	Marks
6(c)(i)	<p>Actual sales of 5800 units are lower than the budgeted sales. (1) Goods are sold at a price higher than the budget, increasing from \$70 to \$72. This may cause a decrease in demand. (1) Promotion / advertising is ineffective (1) Quality of goods are not good as expected (1)</p> <p>Max 3</p> <p>Accept other valid answers.</p>	3
6(c)(ii)	<p>Direct labour rate variance $(17\,600 \times \\$12) - \\$221\,760 = 10\,560(A)$ (1) $\\$221\,760 \div 17\,600 = \\12.6 There has been an increase in pay / hourly rate has increased from \$12 to \$12.60 (1)</p> <p>Direct labour efficiency variance $[(5\,800 \times 3) - 17\,600] \times \\$12 = \\$2\,400(A)$ (1) 200 more labour hours have been deployed due to inefficiency of labour force (1)</p> <p>Accept other valid answers.</p>	4
6(d)	<p>Direct material total variance is \$313 adverse and direct material usage variance is \$1 275 adverse, therefore the direct material price variance is \$962 favourable (1)OF The cost price of direct material is cheaper than expected, maybe due to change in supplier (1) P Limited has been successful in controlling the cost price of direct material (1)</p> <p>Max 2 for justification</p> <p>1 mark for decision.</p>	3