



Cambridge International AS & A Level

SUBJECT

9706/31

Paper 3 Structured Questions

October/November 2020

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 October/November 2020 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 **9** printed pages.

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.

Question	Answer	Marks																																													
1(a)	40 000 – 15 000 (1) = 25 000 (1)OF	2																																													
1(b)	$\frac{25000}{(125000 - 25000)} (1)OF \times 100 = 25\% (1)OF$	2																																													
1(c)	<p style="text-align: center;">Barry</p> <p style="text-align: center;">Income statement for the year ended 31 December 2019</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;">\$</th> <th style="text-align: right;">\$</th> </tr> </thead> <tbody> <tr> <td>Revenue</td> <td></td> <td style="text-align: right;">1 550 000</td> </tr> <tr> <td>Inventory 1 January 2019</td> <td style="text-align: right;">140 000</td> <td></td> </tr> <tr> <td>Production cost at transfer price</td> <td style="text-align: right;"><u>1 000 000</u> W1</td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">1 140 000</td> <td></td> </tr> <tr> <td>Inventory 31 December 2019</td> <td style="text-align: right;"><u>125 000</u> (1)</td> <td></td> </tr> <tr> <td>Cost of sales</td> <td></td> <td style="text-align: right;"><u>1 015 000</u> (1)OF</td> </tr> <tr> <td>Gross profit</td> <td></td> <td style="text-align: right;">535 000 (1)OF</td> </tr> <tr> <td>Factory profit</td> <td></td> <td style="text-align: right;">200 000 (1)OF</td> </tr> <tr> <td>Decrease in provision for unrealised profit</td> <td></td> <td style="text-align: right;">15 000 (1)</td> </tr> <tr> <td>Distribution costs</td> <td style="text-align: right;">212 000</td> <td></td> </tr> <tr> <td>Administrative expenses</td> <td style="text-align: right;"><u>484 000</u> (1)</td> <td style="text-align: right;"><u>696 000</u></td> </tr> <tr> <td>Profit from operations</td> <td></td> <td style="text-align: right;">54 000 (1)OF</td> </tr> <tr> <td>Finance charges</td> <td></td> <td style="text-align: right;"><u>20 000</u> (1)</td> </tr> <tr> <td>Profit for the year</td> <td></td> <td style="text-align: right;"><u>34 000</u> (1)OF</td> </tr> </tbody> </table> <p>W1 505 000 (1) + 283 000 (1) + 12 000 (1) + 200 000 (1)OF = 1 000 000 (1)OF</p>		\$	\$	Revenue		1 550 000	Inventory 1 January 2019	140 000		Production cost at transfer price	<u>1 000 000</u> W1			1 140 000		Inventory 31 December 2019	<u>125 000</u> (1)		Cost of sales		<u>1 015 000</u> (1)OF	Gross profit		535 000 (1)OF	Factory profit		200 000 (1)OF	Decrease in provision for unrealised profit		15 000 (1)	Distribution costs	212 000		Administrative expenses	<u>484 000</u> (1)	<u>696 000</u>	Profit from operations		54 000 (1)OF	Finance charges		<u>20 000</u> (1)	Profit for the year		<u>34 000</u> (1)OF	14
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1(e)	In the manufacturing account (1) within cost of raw materials consumed/added to purchase cost of raw materials (1) as it is the additional cost of purchasing the raw materials (1) Max 2	2																																													

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2(b)	<p style="text-align: center;">PL plc Statement of financial position (extract) at 31 December 2019</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Equity</td> <td style="text-align: right;">\$</td> <td></td> </tr> <tr> <td>Ordinary share capital</td> <td style="text-align: right;">341 000</td> <td>W1</td> </tr> <tr> <td>Share premium</td> <td style="text-align: right;">59 000</td> <td>W2</td> </tr> <tr> <td>Revaluation reserve</td> <td style="text-align: right;">95 000</td> <td>(1)</td> </tr> <tr> <td>General reserve</td> <td style="text-align: right;">30 000</td> <td>(1)</td> </tr> <tr> <td>Retained earnings</td> <td style="text-align: right;"><u>75 000</u></td> <td>W3</td> </tr> <tr> <td></td> <td style="text-align: right;">600 000</td> <td></td> </tr> <tr> <td>Non-current liabilities</td> <td></td> <td></td> </tr> <tr> <td>Bank loans</td> <td style="text-align: right;">85 000</td> <td>(1)</td> </tr> <tr> <td>Current liabilities</td> <td></td> <td></td> </tr> <tr> <td>Trade and other payables</td> <td style="text-align: right;">72 000</td> <td>W4</td> </tr> <tr> <td>Bank loan</td> <td style="text-align: right;">20 000</td> <td>(1)</td> </tr> <tr> <td>Total equity and liabilities (1)</td> <td style="text-align: right;"><u>777 000</u></td> <td>(1)(OF)</td> </tr> </table> <p>W1 250 000 + 60 000 (1) + 31 000 = 341 000 (1)(OF) W2 90 000 (1) – 31 000 = 59 000 (1)(OF) W3 76 000 + 49 000 (1)(OF) – 20 000 (1) – 30 000 (1) = 75 000 (1)(OF) W4 67 000 (1) + 5 000 = 72 000 (1)(OF)</p>	Equity	\$		Ordinary share capital	341 000	W1	Share premium	59 000	W2	Revaluation reserve	95 000	(1)	General reserve	30 000	(1)	Retained earnings	<u>75 000</u>	W3		600 000		Non-current liabilities			Bank loans	85 000	(1)	Current liabilities			Trade and other payables	72 000	W4	Bank loan	20 000	(1)	Total equity and liabilities (1)	<u>777 000</u>	(1)(OF)	16
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2(c)	The company has purchased another business as a going concern (1) and paid a purchase consideration higher than the value of the net assets taken over (1) .	2																																							
2(d)	<p>Good reputation of business (1) Good location of premises (1) Profitability of business (1) Efficiency of employees (1) Good customer base (1) Accept other valid points</p> <p>Max 2</p>	2																																							
2(e)	<p>An independent check on a business's accounting records (1) by an independent, qualified person (1) to check for material errors and to check compliance with accounting standards and relevant legislation (1), resulting in a report (1) stating whether or not the financial statements give a true and fair view (1).</p> <p>Accept other valid points</p> <p>Max 2</p>	2																																							

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3(d)	At lower of cost (1) plus the relevant portion of the costs of getting the inventory into a position and condition to sell (1) and net realisable value (1)	3																																
3(e)	$\frac{4180 (1of)}{110 (1)} = 38 \text{ units } (1)(OF)$	3																																

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4(a)	Absolute values may not be useful in isolation. (1) The use of ratios puts values into context. (1) Ratios may enable trends over time to be monitored. (1) Ratios enable comparisons with other companies or with industry averages. (1) Ratios may help in decision making. (1) Accept other valid points Max 3	3
4(b)(i)	$\frac{20000}{215000} (1) \times 100 = 9.30\% (1)(OF)$	2
4(b)(ii)	It shows that the company has a good ability to pay the interest out of profits. (1)	1
4(b)(iii)	gearing ratio (1)	1
4(c)(i)	$\frac{195000}{80000} (1) = 2.44 \text{ times } (1)(OF)$	2
4(c)(ii)	The company is ploughing back the majority of its profits into the business which should increase its profit generating abilities. (1)	1
4(d)(i)	$\frac{0.08}{0.75} (1) \times 100 = 10.67\% (1)(OF)$	2
4(d)(ii)	An investor will get back more than 10% of the amount he would pay now to buy shares each year. (1)	1
4(e)	earnings per share (1) $\frac{195000}{1000000} (1) = \$0.195 (1)(OF)$	3
4(f)	price earnings ratio (1) $\frac{0.75 (1)}{0.195 (1of)} = 3.85 (1)(OF)$	4
4(g)	The directors' report does give a review of performance (1) and details of dividends (1) but Fred would likely want more detail than this (1). The financial statements deal with historic data (1) and may not be a good indicator of future performance (1) but the directors' report also covers likely future developments of the company (1). Decision (1) Max (4) for comments Accept other valid points.	5

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5(a)	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">A</th> <th style="width: 20%; text-align: center;">B</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>sales</td> <td style="text-align: right;">58 000</td> <td style="text-align: right;">138 000</td> <td>(1) both</td> </tr> <tr> <td>direct materials</td> <td style="text-align: right;">16 000</td> <td style="text-align: right;">36 000</td> <td rowspan="2">}</td> </tr> <tr> <td>direct labour</td> <td style="text-align: right;">20 000</td> <td style="text-align: right;">33 000</td> </tr> <tr> <td>overheads</td> <td style="text-align: right;">18 098 (1)</td> <td style="text-align: right;">43 062 (1)</td> <td>(1) both</td> </tr> <tr> <td>total profit</td> <td style="text-align: right;">3 902</td> <td style="text-align: right;">25 938</td> <td></td> </tr> <tr> <td>profit per unit</td> <td style="text-align: right;">1.95</td> <td style="text-align: right;">8.65</td> <td>(1)(OF)both</td> </tr> </tbody> </table> <p>Accept alternative formats</p>		A	B			\$	\$		sales	58 000	138 000	(1) both	direct materials	16 000	36 000	}	direct labour	20 000	33 000	overheads	18 098 (1)	43 062 (1)	(1) both	total profit	3 902	25 938		profit per unit	1.95	8.65	(1)(OF)both	5
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Quality inspections	<u>1 500</u> (1)	<u>3 500</u> (1)																															
	25 150	36 010	(1)(OF)both																														
5(c)	<p>Rent cannot be allocated under ABC (1) Max 2 of the following it is a fixed cost (1)/not affected by the level of production (1)/not subject to changes in activity level (1)/apportioned on a suitable basis i.e. floor area. (1)</p>	3																															
5(d)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%; text-align: center;">A</th> <th style="width: 15%; text-align: center;">B</th> <th style="width: 40%;"></th> </tr> <tr> <td></td> <th style="text-align: center;">\$</th> <th style="text-align: center;">\$</th> <td></td> </tr> </thead> <tbody> <tr> <td>old profit</td> <td style="text-align: right;">3 902</td> <td style="text-align: right;">25 938</td> <td>*</td> </tr> <tr> <td><i>add</i> old overheads</td> <td style="text-align: right;">18 098</td> <td style="text-align: right;">43 062</td> <td>*(1)(OF)both</td> </tr> <tr> <td><i>less</i> new overheads</td> <td style="text-align: right;">25 150</td> <td style="text-align: right;">36 010</td> <td>(1)(OF)both</td> </tr> <tr> <td>new profit/loss</td> <td style="text-align: right;">(3150)</td> <td style="text-align: right;">32 990</td> <td>(1)(OF)both</td> </tr> <tr> <td>new profit/loss per unit</td> <td style="text-align: right;">(1.58)</td> <td style="text-align: right;">11.00</td> <td>(1)(OF)both</td> </tr> </tbody> </table> <p>accept alternative formats</p>		A	B			\$	\$		old profit	3 902	25 938	*	<i>add</i> old overheads	18 098	43 062	*(1)(OF)both	<i>less</i> new overheads	25 150	36 010	(1)(OF)both	new profit/loss	(3150)	32 990	(1)(OF)both	new profit/loss per unit	(1.58)	11.00	(1)(OF)both	4			
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6(e)	<p>It would increase the risk (1) as it involves a substantial increase in the fixed costs (1) with no guarantee that the extra revenue will happen (1). In year 2 the ticket sales are very close to the maximum (1). What will happen if someone wants to buy a ticket for a day which is fully booked – will he chose to book on another day? (1)</p> <p>Accept other valid points. Max 2</p>	2																												

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6(f)	It increases an already positive NPV. (1) He could consider other methods of appraisal. (1) It increases the risk of the plan. (1) It is based on estimates. (1) Non-financial factors are not considered. (1) Accept other valid points Decision (1) Max (2) for comments	3
6(g)	It deals with forecast figures (1) to measure the effect on an outcome of a change in a variable cost or income (1). It is useful when a project lasts for a number of years (1). Accept other valid points	3