

# Cambridge International AS & A Level

SUBJECT
9706/31
Paper 3 Structured Questions
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.

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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.

© UCLES 2020 Page 2 of 9

Question	Answer	Marks			
1(a)	40 000 – 15 000 <b>(1)</b> = 25 000 <b>(1)OF</b>				
1(b)	$\frac{25000}{(125000-25000)}$ (1)OF $\times$ 100 = 25% (1)OF				
1(c)	Barry   Income statement for the year ended 31 December 2019   \$   \$   \$   \$   \$   \$   \$   \$   \$	14			
1(d)	This suggestion would remove the link with the market price (1) and therefore be subjective (1).  This would increase factory profit (1) but decrease gross profit (1) and leave overall profit unchanged (1).  Any production bonuses for staff and/or the manager in the factory could be inflated (1).  A fixed rate would be consistent year on year (1) and would avoid large fluctuations in the provision for unrealised profit (1) and would simplify the accounting function (1).  Accept other valid points  Max (4) for comments plus (1) for decision				
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			

© UCLES 2020 Page 3 of 9

Question	Answer	Marks
2(a)	\$ Profit from operations 63 000 (1) Interest (12 – 3 + 5) 14 000 (1) Profit for the year 49 000 (1)(OF)	3
2(b)	PL plc Statement of financial position (extract) at 31 December 2019  Equity Stare premium Space of the premium Sp	16
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)	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  Max 2	2
2(e)	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).  Accept other valid points  Max 2	2

© UCLES 2020 Page 4 of 9

Question	Answer	Marks				
3(a)(i)	Consignment to Nakula account  \$ \$ \$ goods on consignment 6000 * Nakula 4000 (1) bank (freight) 600 } Bal c/d 4180  Nakula (selling) 400 }(1)both Nakula (commission) 720 (1) profit on consignment 460 *(1)both  Bal b/d 4180 (1)OF	5				
3(a)(ii)	consignment to Pedro account  \$ goods on consignment   15 000 * Pedro   28 000 (1)  Pedro (freight)   1 600 }  Pedro (selling)   1 200 }(1)both  Pedro (commission)   2 800 (1)(OF)  profit on consignment   7 400 *(1) both  28 000   28 000	4				
3(b)	$\frac{2800}{28000}$ (1)(OF)× 100 = 10% (1)(OF) OF relates to numerator only, denominator CF					
3(c)(i)	Nakula account \$  Consignment a/c N  4000 (1)  Consignment a/c N  Consignment a/c N  Bal c/d  2880  4000  Bal b/d 2880 (1)(OF)	4				
3(c)(ii)	Pedro account \$  consignment a/c P  28 000 (1) consignment a/c P  bank  28 000 (1)(OF)  28 000	4				
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(e)	$\frac{4180 \text{ (1of)}}{110 \text{ (1)}} = 38 \text{ units (1)(OF)}$	3				

© UCLES 2020 Page 5 of 9

Question	Answer	Marks				
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					
4(b)(i)	$\frac{20000}{215000}$ (1) × 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 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) × 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) $\frac{0.75}{0.195} \frac{\text{(1)}}{\text{(1of)}} = 3.85 \text{ (1)(OF)}$	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	5				
	Accept other valid points.					

Question	Answer					Marks
5(a)	A B \$ \$ sales 58 000 138 000 (1) both direct materials 16 000 36 000 } direct labour 20 000 33 000 } (1) both overheads 18 098 (1) 43 062 (1) total profit 3 902 25 938 profit per unit 1.95 8.65 (1)(OF)both  Accept alternative formats					
5(b)	Machine set up costs Packaging Quality inspections	A \$ 16 800 3 000 (1) 3 850 (1) 1 500 25 150	5 000 2 310 <u>3 500</u>	(1)		8
5(c)	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)					
5(d)	old profit  add old overheads	A \$ 3 902 18 098	B \$ 25 938 43 062	* *(1)(OF)both		4
	less new overheads	25 150	36 010	(1)(OF)both	_	
	new profit/loss	(3150)	32 990	, , ,		
	new profit/loss per unit accept alternative formate	(1.58) <b>s</b>	11.00	(1)(OF)both		
5(e)	The changes in allocation of overheads has not changed total profit. (1) Product A now makes a loss per unit. (1) However it still has a positive contribution. (1) Most of the increase in the overheads for product A relate to the rent which is still apportioned rather than allocated and is therefore subjective. (1) Bob needs to consider what his competitors are charging/what the market can bear. (1) If he increased the price of A sales might fall. (1) If sales of A fell total contribution might decrease. (1) If sales of A fell the rent being a fixed cost would still have to be paid. (1)  Accept other valid points Decision (1) Max (4) for four comments.					

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Question	Ans	wer							Marks
6(a)(i)				year 1 \$	ye \$	ar 2			1
	rev	enue – orig	ginal	800 000	913 00	0 <b>(1 b</b>	oth)		
6(a) (ii)				year 1 \$	ye \$	ar 2			1
	rev	enue – rev	ised	1 056 000	1 195 20	0 <b>(1 b</b>	oth)		
6(b)(i)				year 1 \$	year \$	2			2
	var	iable cost -	- original	240 000 <b>(1</b>	) 249 00	0 (1)			
6(b)(ii)				year 1 \$	year \$	2			2
	var	iable cost -	- revised	288 000 (1	) 298 80	0 (1)			
6(c)		incr in revenue \$	incr in var costs \$	incr in fixed costs \$	net cash flow \$		ount	discounted cash flow \$	8
	y1	256 000	48 000	125 000	83 000 <b>(1)(OF)</b>	0	.909	75 447 <b>(1)(OF)</b>	
	y2	282 200 (1)(OF) for both	49 800 (1)(OF) for both	125 000 (1) for both	107 400 <b>(1)(OF)</b>	0	.826	88 712 <b>(1)(OF)</b>	
						NPV	/	164 159 <b>(1)(OF)</b>	
6(d)	increase in fixed costs $$125000$$ increased income from existing sales $[8000 \times \$10]$ $$80000$ $$45000$ (1) new ticket sales $[45000/(100+10)]$ $$409.09$ (1)(OF) total ticket sales $(8000+410)$ $$410$ (1)(OF)						3		
6(e)	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)  Accept other valid points.  Max 2						2		

© UCLES 2020 Page 8 of 9

Question	Answer	Marks
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

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