

**Accounting**

Advanced GCE

Unit **F014**: Management Accounting

**Mark Scheme for January 2013**

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.








All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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## Annotations

Annotation	Meaning
	Unclear
	Benefit of doubt
	Cross
	Own figure rule
	Repeat
	Noted but no credit given
	Tick

**Subject-specific Marking Instructions**

Every working box – whether they contain working or not – must be stamped as “seen”.

**Quality of Written Communication**

The rubric states:

*\* In these two questions/sub questions, you will be assessed on the quality of your written communication. In one of these questions, the focus will be on your ability to present numerical information legibly and in an appropriate accounting format. In the other, you will be assessed on the legibility and style of writing, the clarity and coherence of your arguments and the accuracy of your spelling, punctuation and grammar.*

**Levels of Response for Numerical Questions**

Level	Mark	Description
3	3	All account headings, terms and balances are included appropriately and in line with accounting conventions. All figures are legible with effective use made of columns and sub-totals. All accounts are ruled off as appropriate.
2	2	Almost all account headings, terms and balances are included appropriately and in line with accounting conventions. Figures are legible with effective use made of columns and sub-totals. Accounts are ruled off as appropriate.
1	1	Some account headings, terms and balances are included though not always adhered to accounting conventions. Most figures are legible. Some appropriate use is made of columns and sub-totals. Some accounts are ruled off as appropriate.
–	0	Responses which fail to achieve the standard required for Level 1.

**Levels of Response for Narrative Questions**

Level	Mark	Description
2	2	Ideas, some complex, are expressed clearly and quite fluently, using an appropriate style of writing. Arguments made are generally relevant and are constructed in a logical and coherent manner. There are few errors of spelling, punctuation and grammar, and those that are made are not intrusive and do not obscure meaning.
1	1	Relatively straightforward or simple ideas are expressed in a generally appropriate style of writing which sometimes lacks clarity or fluency. Arguments have some limited coherence and structure occasionally showing relevance to the main focus of the questions. There are errors of spelling, punctuation and grammar which are noticeable and sometimes intrusive but do not totally obscure meaning.
–	0	Responses which fail to achieve the standard required for Level 1.

Question			Answer	Marks	Guidance																																	
1	(a)	(i)	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>Product A</u></th> <th style="text-align: center;"><u>Product B</u></th> </tr> </thead> <tbody> <tr> <td>Selling price</td> <td style="text-align: center;">80</td> <td style="text-align: center;">90</td> </tr> <tr> <td>Variable costs</td> <td style="text-align: center;"><u>60</u></td> <td style="text-align: center;"><u>65</u></td> </tr> <tr> <td>Contribution per unit</td> <td style="text-align: center;">20</td> <td style="text-align: center;">25</td> </tr> <tr> <td>Quantity</td> <td style="text-align: center;"><u>14,000</u></td> <td style="text-align: center;"><u>11,000</u></td> </tr> <tr> <td>Total contribution</td> <td style="text-align: center;"><u>280,000</u></td> <td style="text-align: center;"><u>275,000</u></td> </tr> <tr> <td>A Contribution</td> <td style="text-align: center;">280,000(1)</td> <td></td> </tr> <tr> <td>B Contribution</td> <td style="text-align: center;"><u>275,000(1)</u></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">555,000</td> <td></td> </tr> <tr> <td>Fixed costs</td> <td style="text-align: center;"><u>360,000(1)</u></td> <td></td> </tr> <tr> <td>Profit</td> <td style="text-align: center;"><u>195,000(1)</u></td> <td></td> </tr> </tbody> </table>		<u>Product A</u>	<u>Product B</u>	Selling price	80	90	Variable costs	<u>60</u>	<u>65</u>	Contribution per unit	20	25	Quantity	<u>14,000</u>	<u>11,000</u>	Total contribution	<u>280,000</u>	<u>275,000</u>	A Contribution	280,000(1)		B Contribution	<u>275,000(1)</u>			555,000		Fixed costs	<u>360,000(1)</u>		Profit	<u>195,000(1)</u>		4	Allow 180,000 FC deducted from A and B(1)  195,000(4)
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		(ii)	<p>Break-even <math>\frac{180,000}{20} = 9,000</math> units(1)</p> <p style="padding-left: 40px;"><math>\times 80 = \text{£}720,000(1)</math></p>	2																																		
	(b)		<p>The chart shows a vertical axis labeled '£' with a '+' sign at the top and a '-' sign at the bottom. A horizontal line is drawn at the level of 180,000(1) on the vertical axis. A diagonal line starts from the same point on the vertical axis and slopes upwards to the right. The point where the diagonal line intersects the horizontal line is marked as 7,200(1) on the horizontal axis, which is labeled 'units'. The area between the horizontal line and the diagonal line, above the horizontal line, is shaded and labeled (1).</p>	3	648,000(1)																																	

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(c)	<p>Material requirement:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%;">A 30 x 14,000</td> <td style="width: 50%; text-align: right;">420,000</td> </tr> <tr> <td></td> <td>B 32 x 11,000</td> <td style="text-align: right;"><u>352,000</u></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">772,000</td> </tr> <tr> <td></td> <td>Available 85%</td> <td style="text-align: right;"><u>656,200</u></td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;"><u>A</u></td> <td style="width: 50%;"></td> </tr> <tr> <td><u>Contribution</u></td> <td style="text-align: center;"><u>20(1)</u></td> <td style="text-align: center;"><u>25(1)</u></td> </tr> <tr> <td style="padding-left: 20px;">L/F</td> <td style="text-align: center;">30</td> <td style="text-align: center;">32</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%; text-align: center;">.67</td> <td style="width: 50%;"></td> </tr> <tr> <td>Priority</td> <td style="text-align: center;">2<sup>nd</sup></td> <td style="text-align: center;">.78 1<sup>st</sup> (1)</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 50%;"></td> <td style="width: 20%; text-align: right;">656,200(2)</td> </tr> <tr> <td>Material available</td> <td></td> <td style="text-align: right;"><u>(352,000)</u></td> </tr> <tr> <td>B 32 x 11,000</td> <td></td> <td style="text-align: right;">304,200</td> </tr> <tr> <td>A 30 x 10,140</td> <td></td> <td style="text-align: right;"><u>(304,200)(1)</u></td> </tr> </table> <p><u>Profit Statement</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 50%;"></td> <td style="width: 20%; text-align: right;">275,000(1)</td> </tr> <tr> <td>B 25 x 11,000</td> <td></td> <td style="text-align: right;"><u>202,800(1)</u></td> </tr> <tr> <td>A 20 x 10,140</td> <td></td> <td style="text-align: right;">477,800</td> </tr> <tr> <td>Fixed costs</td> <td></td> <td style="text-align: right;"><u>360,000</u></td> </tr> <tr> <td>Profit</td> <td></td> <td style="text-align: right;"><u>117,800(2)</u></td> </tr> </table>		A 30 x 14,000	420,000		B 32 x 11,000	<u>352,000</u>			772,000		Available 85%	<u>656,200</u>		<u>A</u>		<u>Contribution</u>	<u>20(1)</u>	<u>25(1)</u>	L/F	30	32		.67		Priority	2 <sup>nd</sup>	.78 1 <sup>st</sup> (1)			656,200(2)	Material available		<u>(352,000)</u>	B 32 x 11,000		304,200	A 30 x 10,140		<u>(304,200)(1)</u>			275,000(1)	B 25 x 11,000		<u>202,800(1)</u>	A 20 x 10,140		477,800	Fixed costs		<u>360,000</u>	Profit		<u>117,800(2)</u>	10	10,140(1)  95,000(1) 22,800(1)
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<b>(b)</b>	<p>SSAP 9(1) – absorption costing(1).                      Stock valuation should include a fair share(1) of production overhead (FC + VC)(1).                      This is not(1) the case with marginal costing(1), which excludes fixed costs(1).                      Marginal costing is useful for decision making(1) with the use of the contribution principle(1).</p> <p><b>(6 x 1 mark)</b></p>	6																																																																													
	<b>Total</b>	<b>23</b>																																																																													

Question			Answer				Marks	Guidance
3	(a)	(i)		<u>Product 63</u>	<u>Product 64</u>			
			Net profit	20,000	40,000			
			Depreciation	<u>15,000(1)</u>	<u>30,000(1)</u>			
			Cash flow	<u>35,000(1)</u>	<u>70,000(1)</u>			
			excludes residuals					
		(ii)	<u>Payback</u>				4	
			<u>Product 63</u>		<u>Product 64</u>			
			1 yr + $\frac{30}{35} = 1.86$ yrs(2)		2 yrs + $\frac{20}{70} = 2.29$ yrs(2)			
		(iii)	<u>Product 63</u>				10	
			<u>Year</u>	<u>Cash flow</u>	<u>Disc factor</u>	<u>Present value</u>		
			1	35,000	0.909	31,815(1)		
			2	35,000	0.826	28,910		
			3	35,000	0.751	26,285		
			4	35,000	0.683	23,905(1)		
			4	5,000	0.683	<u>3,415(1)</u>		
						114,330	27,320(2)	
			Capital cost			<u>65,000(1)</u>		
			Net present value			<u>49,330(1)</u>		
			<u>Product 64</u>					
			<u>Year</u>	<u>Cash flow</u>	<u>Disc factor</u>	<u>Present value</u>		
			1	70,000	0.909	63,630(1)		
			2	70,000	0.826	57,820		
			3	70,000	0.751	52,570		
			4	70,000	0.683	47,810		
			5	70,000	0.621	43,470(1)		
			5	10,000	0.621	<u>6,210(1)</u>		
						271,510	49,680(2)	
			Capital cost			<u>160,000(1)</u>		
			Net present value			<u>111,510(1)</u>		

Question	Answer	Marks	Guidance
(b)	<p>No account(1) is taken that earnings may accrue(1) after the payback period(1) and we are not considering the full period(1).</p> <p>No account(1) is taken of timing(1). Cash flows in the future(1) will not be of the same value as money today(1).</p> <p>Most companies limit investments(1) to a short(1) payback period. This could exclude profitable investments(1), although it may be useful with changing technology(1).</p> <p><b>(2 x 3 marks)</b> <b>(1 for point plus up to 2 for development)</b></p>	6	
	<b>Total</b>	<b>24</b>	

Question		Answer						Marks	Guidance		
4	(a)	<u>Cost</u>	<u>Basis</u>	<u>Total</u>	<u>Mach</u>	<u>Assy</u>	<u>Maint</u>	<u>Cant</u>	20		
		Ind wages	Emp	900,000	337,500(1)	432,000(1)	90,000(1)	40,500(1)			
		Rep/Maint	M/c hrs	150,000	142,500(1)	7,500	-	-			
		Canteen	Emp	62,000	23,250(1)	29,760	6,200	2,790			
		Ins m/c	M/c cost	41,000	30,750(1)	10,250	-	-			
		Ins prem	Prem area	32,000	14,400(1)	12,800	3,200	1,600			
		Dep m/c	M/c cost	30,000	22,500(1)	7,500	-	-			
		Heat/light	Prem area	38,000	17,100(1)	15,200(1)	3,800	1,900			
		Cons	Alloc	12,500	6,200(1)	3,490	1,600	1,210			
								<u>48,000(1)</u>			
		Reapp	Canteen		19,200(1)	21,600	<u>7,200</u>	<u>(48,000)</u>			
			Maint		<u>89,600(1)</u>	<u>22,400</u>	<u>112,000(1)</u>				
					<u>703,000</u>	<u>562,500</u>					
					<u>703,000(1)</u>	<u>562,500(1)</u>					
			380,000	250,000							
			£1.85(1)	£2.25(1)							
			DMH	DLH							
	(b)	Actual overhead			<u>Mach</u>			6			
		Absorbed overhead 1.85 x 370,000			690,000						
					<u>684,500(2)</u>					1.85(1)	
					<u>5,500</u> under(1)					370,000(1)	
		Actual overhead			<u>Assy</u>						
		Absorbed overhead 2.25 x 260,000			577,000						
					<u>585,000(2)</u>			2.25(1)			
					<u>8,000</u> over(1)			260,000(1)			

Question	Answer	Marks	Guidance
(c)	<p>Use of estimated data(1), which could be inaccurate(1), leading to under/over absorption(1).</p> <p>Over absorption, too much overhead charged to production(1), overpriced and uncompetitive(1), fall in demand(1) and subsequent loss of revenue/reduction in profit(1).</p> <p>Under absorption, insufficient overhead charged to production(1), lower price to customers(1), costs not covered(1) and subsequent reduction in profit(1).</p> <p><b>(3 x 3 marks)</b> <b>(1 for point plus up to 2 for development)</b></p>	9	
	<b>Total</b>	<b>35</b>	

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