



GCE

Accounting

Advanced GCE

Unit **F014**: Management Accounting

Mark Scheme for June 2011

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Mark Scheme

June 2011

Question Number	Expected Answer	Mark	Additional Guidance															
1 (a) (i)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Sales</td> <td style="width: 15%; text-align: right;">4,200,000</td> <td style="width: 70%;"></td> </tr> <tr> <td>Variable costs</td> <td style="text-align: right;"><u>2,400,000</u></td> <td></td> </tr> <tr> <td>Contribution</td> <td style="text-align: right;">1,800,000</td> <td></td> </tr> <tr> <td>Fixed costs</td> <td style="text-align: right;"><u>840,000</u></td> <td></td> </tr> <tr> <td>Profit</td> <td style="text-align: right;"><u><u>960,000</u></u>(1)</td> <td style="text-align: center; vertical-align: middle;">[1]</td> </tr> </table>	Sales	4,200,000		Variable costs	<u>2,400,000</u>		Contribution	1,800,000		Fixed costs	<u>840,000</u>		Profit	<u><u>960,000</u></u> (1)	[1]		Marks for profit and contribution are for correct values, regardless of method.
Sales	4,200,000																	
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Profit	<u><u>960,000</u></u> (1)	[1]																
(ii)	$\frac{1,800,000}{30,000} = 60(1)$	[1]																
(iii)	$\frac{840,000}{140 - 80} = \frac{840,000}{60} = 14,000 (1) \text{ units}$ <p>Sales value 14,000 x 140 = 1,960,000(1)</p>	[2]																

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Question Number	Expected Answer	Mark	Additional Guidance	
(b) (i)	Selling price Variable costs Contribution per unit Quantity <u>x 32,700</u> 2,027,400 Fixed costs <u>990,000(1)</u> <u>1,037,400(1)</u>		Marks are for values shown. If correct profit but contribution per unit not shown, then (2).	
	(ii)	Selling price Variable costs Contribution per unit Quantity <u>x 31,500</u> 1,890,000 Fixed costs <u>900,000(1)</u> <u>990,000(1)</u>		
	(iii)	Selling price Variable costs Contribution per unit Quantity <u>x 37,500(1)</u> 1,790,625 Fixed costs <u>840,000</u> <u>950,625(1)</u>		

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(iv)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Selling price</td> <td style="text-align: right;">140</td> </tr> <tr> <td>Variable costs</td> <td style="text-align: right;"><u>79.20</u></td> </tr> <tr> <td>Contribution per unit</td> <td style="text-align: right;">60.80(1)</td> </tr> <tr> <td>Quantity</td> <td style="text-align: right;">x 30,000</td> </tr> <tr> <td></td> <td style="text-align: right;">1,824,000</td> </tr> <tr> <td>Fixed costs</td> <td style="text-align: right;"><u>860,000(1)</u></td> </tr> <tr> <td>Profit</td> <td style="text-align: right;"><u><u>964,000(1)</u></u></td> </tr> </table>	Selling price	140	Variable costs	<u>79.20</u>	Contribution per unit	60.80(1)	Quantity	x 30,000		1,824,000	Fixed costs	<u>860,000(1)</u>	Profit	<u><u>964,000(1)</u></u>	[12]	
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(c)	<p>60Q(1) – 840,000(1) = 990,000</p> <p>Q = 30,500(1)</p>	[3]	30,500 (3), regardless of method.														
(d)	<p>Quality (1) – will the supplier be able to supply components to the required quality (1). Faulty goods (1) will lead to production delays (1).</p> <p>Price stability (1) – once the order has been placed, will the price be stable (1) for a period (1). Need to ensure contract detail (1) covers price stability.</p> <p>Reliability (1) – will goods be delivered (1) on time (1) and in the event of urgent requirements (1) will the supplier prioritise our work (1).</p> <p>Industrial relations (1) – redundancies may lead to bad publicity (1) other employees may strike (1), may lead to orders not completed, loss of customers (1).</p> <p>Financial implications (1) – profit increase (1), contribution increase (1), fixed cost increase (1).</p> <p>(2 x 3 marks) (1 for point plus up to 2 for development)</p>	[6]															

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Question Number	Expected Answer	Mark	Additional Guidance
(e)	Make or buy Dropping a product Acceptance of special order Minimum selling price Limiting factor (2 x 1 mark)	[2]	Allow tender bidding (1). Break-even (1).
	Total marks	[27]	

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2 (a)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Slitting</td> <td style="width: 20%; text-align: right;"><u>9,600</u></td> <td style="width: 50%;">3.20 DLH(1)</td> </tr> <tr> <td></td> <td style="text-align: right;">3,000</td> <td></td> </tr> <tr> <td>Coiling</td> <td style="text-align: right;"><u>17,220</u></td> <td>4.10 DLH(1)</td> </tr> <tr> <td></td> <td style="text-align: right;">4,200</td> <td></td> </tr> <tr> <td>Assembly</td> <td style="text-align: right;"><u>6,300</u></td> <td>3.00 DLH(1)</td> </tr> <tr> <td></td> <td style="text-align: right;">2,100</td> <td></td> </tr> </table>	Slitting	<u>9,600</u>	3.20 DLH(1)		3,000		Coiling	<u>17,220</u>	4.10 DLH(1)		4,200		Assembly	<u>6,300</u>	3.00 DLH(1)		2,100		[3]	Allow percentage.																											
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(b)	<p><u>Cost Statement Enquiry 1912</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Direct material</td> <td style="width: 20%;"></td> <td style="width: 50%; text-align: right;">9,680(1)</td> </tr> <tr> <td>Direct labour</td> <td></td> <td></td> </tr> <tr> <td> Slitting</td> <td style="text-align: right;">2,700</td> <td></td> </tr> <tr> <td> Coiling</td> <td style="text-align: right;">5,700</td> <td></td> </tr> <tr> <td> Assembly</td> <td style="text-align: right;"><u>4,000</u></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;"><u>12,400(1)</u></td> </tr> <tr> <td>Prime cost</td> <td></td> <td style="text-align: right;">22,080</td> </tr> <tr> <td>Factory overheads</td> <td></td> <td></td> </tr> <tr> <td> Slitting</td> <td style="text-align: right;">960</td> <td></td> </tr> <tr> <td> Coiling</td> <td style="text-align: right;">2,460</td> <td></td> </tr> <tr> <td> Assembly</td> <td style="text-align: right;"><u>1,500</u></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;"><u>4,920(1)</u></td> </tr> <tr> <td>Cost of production</td> <td></td> <td style="text-align: right;">27,000</td> </tr> <tr> <td>Administration expenses</td> <td></td> <td style="text-align: right;"><u>4,050(1 of)</u></td> </tr> <tr> <td>Total costs</td> <td></td> <td style="text-align: right;"><u>31,050(1)</u></td> </tr> </table>	Direct material		9,680(1)	Direct labour			Slitting	2,700		Coiling	5,700		Assembly	<u>4,000</u>				<u>12,400(1)</u>	Prime cost		22,080	Factory overheads			Slitting	960		Coiling	2,460		Assembly	<u>1,500</u>				<u>4,920(1)</u>	Cost of production		27,000	Administration expenses		<u>4,050(1 of)</u>	Total costs		<u>31,050(1)</u>	[5]	If sub totals not shown, allow marks if correct individual components.
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(c)	$31,050 \times \frac{100}{90} = 34,500$ (2)(1 of)	[2]	(1 of) for correct multiplier or divide by 0.9.
(d) (i)	Labour intensive (1) . Overheads are related to time (1) and this is time based (1) . If different grades (1) of labour, then departmental (1) labour hour rate appropriate. (3 x 1 mark)	[3]	
(ii)	Machine hour rate (1) – if machining main factor (1) , this method preferred (1) , if different types of machinery (1) , departmental (1) rates may be calculated. Unit cost (1) – simple to calculate (1) , cheap (1) to apply, only suitable if similar (1) units made, could apply in mass production (1) industry. % prime cost (1) – quick and convenient (1) , unlikely to be accurate (1) unless similar (1) material, labour, equipment (1) . % direct labour cost (1) – if similar units (1) and uniformly paid labour (1) then may give reasonable results, no distinction (1) between quick/slow workers (1) % direct material cost (1) – if similar material (1) , times proportionate (1) and similar equipment (1) then may give reasonable results, usually no relationship (1) between material and overheads. Activity based costing (1) – accuracy (1) , change in production (1) , cost to set up (1) , no benefit to one product companies (1) . (3 x 3 marks) (1 for method plus up to 2 for development)	[9]	
	Total marks	[22]	

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(b)*	<p><u>Payback</u> Easy to calculate (1). Uses cash flow (1), not subjective (1). No account is taken that earnings may accrue after (1) the payback period and we are not considering the full period (1). No account is taken of timing (1). Cash flows in the future (1) will not be of the same value as today (1). Many companies limit investments to short payback (1), this could exclude (1) profitable investments. Short term aspect may be useful (1) with rapid technological change (1).</p> <p><u>Net present value</u> Uses cash flow (1), not subjective (1). All (1) earnings are taken into account (1). Timing (1) of cash flows (1) is taken into account. Need to predict (1) a discount factor (1) which might not be accurate (1). Increased calculations (1) and could be time consuming (1).</p> <p>Max six marks for each method (10) Maximum ten marks QWC (2)</p>	[12]	
(c)	<p>Duncan plc has highest net present value (1), shortest payback (1), but note highest capital cost (1). Recommendation (1).</p> <p>(3 x 1 mark)</p>	[3]	Allow two of.
	Total marks	[35]	

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4 (a)	<p data-bbox="394 244 1149 276"><u>Cash Budget for the three months ending 31 August 2011</u></p> <table data-bbox="394 308 1167 818"> <thead> <tr> <th></th> <th style="text-align: center;"><u>June</u></th> <th style="text-align: center;"><u>July</u></th> <th style="text-align: center;"><u>August</u></th> </tr> </thead> <tbody> <tr> <td colspan="4"><u>Receipts</u></td> </tr> <tr> <td>Sales</td> <td style="text-align: right;">63,000(1)</td> <td style="text-align: right;">60,000(1)</td> <td style="text-align: right;">55,500(1)</td> </tr> <tr> <td>Disposal</td> <td style="text-align: right;"><u>3,400(1)</u></td> <td style="text-align: right;"><u> </u></td> <td style="text-align: right;"><u> </u></td> </tr> <tr> <td></td> <td style="text-align: right;"><u>66,400</u></td> <td style="text-align: right;"><u>60,000</u></td> <td style="text-align: right;"><u>55,500</u></td> </tr> <tr> <td colspan="4"><u>Payments</u></td> </tr> <tr> <td>Purchases</td> <td style="text-align: right;">26,460(1)</td> <td style="text-align: right;">27,930(1)</td> <td style="text-align: right;">29,400(1)</td> </tr> <tr> <td></td> <td style="text-align: right;"><u>11,000(1)</u></td> <td style="text-align: right;"><u>9,000(1)</u></td> <td style="text-align: right;"><u>9,500(1)</u></td> </tr> <tr> <td>Purchases</td> <td style="text-align: right;">37,460</td> <td style="text-align: right;">36,930</td> <td style="text-align: right;">38,900</td> </tr> <tr> <td>Expenses</td> <td style="text-align: right;">12,000</td> <td style="text-align: right;">12,000</td> <td style="text-align: right;">12,000</td> </tr> <tr> <td>Fixed asset</td> <td style="text-align: right;"><u> </u></td> <td style="text-align: right;"><u>9,600(1)</u></td> <td style="text-align: right;"><u> </u></td> </tr> <tr> <td></td> <td style="text-align: right;"><u>49,460</u></td> <td style="text-align: right;"><u>58,530</u></td> <td style="text-align: right;"><u>50,900</u></td> </tr> <tr> <td>Net cash flow</td> <td style="text-align: right;">16,940</td> <td style="text-align: right;">1,470</td> <td style="text-align: right;">4,600</td> </tr> <tr> <td>Opening bal</td> <td style="text-align: right;"><u>3,000</u></td> <td style="text-align: right;"><u>19,940</u></td> <td style="text-align: right;"><u>21,410</u></td> </tr> <tr> <td>Closing bal</td> <td style="text-align: right;"><u>19,940</u></td> <td style="text-align: right;"><u>21,410</u></td> <td style="text-align: right;"><u>26,010(1)</u></td> </tr> </tbody> </table>		<u>June</u>	<u>July</u>	<u>August</u>	<u>Receipts</u>				Sales	63,000(1)	60,000(1)	55,500(1)	Disposal	<u>3,400(1)</u>	<u> </u>	<u> </u>		<u>66,400</u>	<u>60,000</u>	<u>55,500</u>	<u>Payments</u>				Purchases	26,460(1)	27,930(1)	29,400(1)		<u>11,000(1)</u>	<u>9,000(1)</u>	<u>9,500(1)</u>	Purchases	37,460	36,930	38,900	Expenses	12,000	12,000	12,000	Fixed asset	<u> </u>	<u>9,600(1)</u>	<u> </u>		<u>49,460</u>	<u>58,530</u>	<u>50,900</u>	Net cash flow	16,940	1,470	4,600	Opening bal	<u>3,000</u>	<u>19,940</u>	<u>21,410</u>	Closing bal	<u>19,940</u>	<u>21,410</u>	<u>26,010(1)</u>	[12]	Correct purchases (2).
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(b)*	<p data-bbox="394 244 1373 308"><u>Budgeted Trading and Profit and Loss Account for the three months ending 31 August 2011</u></p> <table data-bbox="394 339 1373 818"> <tr> <td data-bbox="394 339 716 371">Sales</td> <td data-bbox="716 339 940 371"></td> <td data-bbox="940 339 1373 371">177,000(1)</td> </tr> <tr> <td data-bbox="394 371 716 403">Opening stock</td> <td data-bbox="716 371 940 403">44,000(1)</td> <td data-bbox="940 371 1373 403"></td> </tr> <tr> <td data-bbox="394 403 716 435">Purchases</td> <td data-bbox="716 403 940 435"><u>114,000(1)</u></td> <td data-bbox="940 403 1373 435"></td> </tr> <tr> <td data-bbox="394 435 716 467"></td> <td data-bbox="716 435 940 467">158,000</td> <td data-bbox="940 435 1373 467"></td> </tr> <tr> <td data-bbox="394 467 716 499">Closing stock</td> <td data-bbox="716 467 940 499"><u>40,000(1)</u></td> <td data-bbox="940 467 1373 499"></td> </tr> <tr> <td data-bbox="394 499 716 531">Cost of sales</td> <td data-bbox="716 499 940 531"></td> <td data-bbox="940 499 1373 531"><u>118,000</u></td> </tr> <tr> <td data-bbox="394 531 716 563">Gross Profit</td> <td data-bbox="716 531 940 563"></td> <td data-bbox="940 531 1373 563">59,000</td> </tr> <tr> <td data-bbox="394 563 716 595">Discount received</td> <td data-bbox="716 563 940 595"></td> <td data-bbox="940 563 1373 595"><u>1,710(1)</u></td> </tr> <tr> <td data-bbox="394 595 716 627"></td> <td data-bbox="716 595 940 627"></td> <td data-bbox="940 595 1373 627">60,710</td> </tr> <tr> <td data-bbox="394 627 716 659">Expenses</td> <td data-bbox="716 627 940 659">36,000(1)</td> <td data-bbox="940 627 1373 659"></td> </tr> <tr> <td data-bbox="394 659 716 691">Depreciation</td> <td data-bbox="716 659 940 691">4,850(1)</td> <td data-bbox="940 659 1373 691"></td> </tr> <tr> <td data-bbox="394 691 716 722">Loss on sale</td> <td data-bbox="716 691 940 722"><u>600(1)</u></td> <td data-bbox="940 691 1373 722"></td> </tr> <tr> <td data-bbox="394 722 716 754"></td> <td data-bbox="716 722 940 754"></td> <td data-bbox="940 722 1373 754"><u>41,450</u></td> </tr> <tr> <td data-bbox="394 754 716 786">Net Profit</td> <td data-bbox="716 754 940 786"></td> <td data-bbox="940 754 1373 786"><u><u>19,260</u></u></td> </tr> </table>	Sales		177,000(1)	Opening stock	44,000(1)		Purchases	<u>114,000(1)</u>			158,000		Closing stock	<u>40,000(1)</u>		Cost of sales		<u>118,000</u>	Gross Profit		59,000	Discount received		<u>1,710(1)</u>			60,710	Expenses	36,000(1)		Depreciation	4,850(1)		Loss on sale	<u>600(1)</u>				<u>41,450</u>	Net Profit		<u><u>19,260</u></u>		
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(b)* continued	<p><u>Budgeted Balance Sheet as at 31 August 2011</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><u>Fixed Assets</u> at cost</td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: right;">202,000</td> </tr> <tr> <td>less depreciation</td> <td></td> <td style="text-align: right;"><u>56,850</u></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">145,150(1 of)</td> </tr> <tr> <td colspan="3"><u>Current Assets</u></td> </tr> <tr> <td>Stock</td> <td style="text-align: right;">40,000(1)</td> <td></td> </tr> <tr> <td>Debtors</td> <td style="text-align: right;">28,500(1)</td> <td></td> </tr> <tr> <td>Bank</td> <td style="text-align: right;"><u>26,010</u></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">94,510</td> <td></td> </tr> <tr> <td colspan="3"><u>Current Liabilities</u></td> </tr> <tr> <td>Creditors</td> <td style="text-align: right;">10,000(1)</td> <td></td> </tr> <tr> <td>Expenses</td> <td style="text-align: right;">4,000(1)</td> <td></td> </tr> <tr> <td>Fixed Asset</td> <td style="text-align: right;"><u>14,400(1)</u></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">28,400</td> <td></td> </tr> <tr> <td>Working Capital</td> <td></td> <td style="text-align: right;"><u>66,110</u></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;"><u>211,260</u></td> </tr> <tr> <td>Capital and Reserves</td> <td></td> <td style="text-align: right;"><u>211,260(1 of)</u></td> </tr> <tr> <td></td> <td style="text-align: right;">QWC (3)</td> <td></td> </tr> </table>	<u>Fixed Assets</u> at cost		202,000	less depreciation		<u>56,850</u>			145,150(1 of)	<u>Current Assets</u>			Stock	40,000(1)		Debtors	28,500(1)		Bank	<u>26,010</u>			94,510		<u>Current Liabilities</u>			Creditors	10,000(1)		Expenses	4,000(1)		Fixed Asset	<u>14,400(1)</u>			28,400		Working Capital		<u>66,110</u>			<u>211,260</u>	Capital and Reserves		<u>211,260(1 of)</u>		QWC (3)		[18]	Capital and Reserves (1 of) for change to 192,000.
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(c)	<p>Participation (1) – budgets can be imposed (1) and if managers are not involved (1) then less likely to contribute/buy in (1) to the process. If involved then more likely to contribute effectively (1).</p> <p>Motivation (1) – budgets can help to motivate managers and be seen as a target (1). If process participative (1) then more likely to encourage managers (1).</p> <p>Communication (1) – budgets can help communicate to managers. Keeping managers up to date (1) can motivate, whilst lack of communication can demotivate (1).</p> <p>Goal congruence (1) – if managers involved (1) in process, then likely to see goals (1) of the company as a group and work together (1).</p> <p>(2 x 3 marks) (1 for point plus up to 2 for development)</p>	[6]	Allow planning, benefits and actions.
	Total marks	[36]	

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