

GCE

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
111	Benefit of doubt
×	Cross
[4]	Own figure rule
1942	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:

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.

^{*} 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.

Quest	ion	Answer	Marks	Guidance
1 (a)	(i)	Selling price 80 90 Variable costs 60 65 Contribution per unit 20 25 Quantity 14,000 11,000 Total contribution 280,000 275,000 A Contribution 275,000(1) B Contribution 275,000(1) Fixed costs 360,000(1) Profit 195,000(1)	4	Allow 180,000 FC deducted from A and B(1) 195,000(4)
	(ii)	Break-even $\frac{180,000}{20}$ = 9,000 units(1) X 80 = £720,000(1)	2	
(b)		+ £ 7,200(1) units - 180,000(1)	3	648,000(1)

Questi	ion				Answer		Marks	Guidance
(c)		Material requir		A 30 x 14,000 B 32 x 11,000 Available 85%	420,000 352,000 772,000 656,200		10	
		Contribution L/F	<u>A</u> <u>20</u> (1) 30	<u>B</u> <u>25</u> (1) 32 .78				
		Priority Material availa	2 nd	1 st (1)		656,200 (2)		
		B 32 x 11,000 A 30 x 10,140				(352,000) 304,200 (304,200)(1)		10,140(1)
		Profit Stateme B 25 x 11,000 A 20 x 10,140 Fixed costs Profit				275,000 (1) 202,800 (1) 477,800 360,000		95,000(1) 22,800(1)
(d)	(i)	Margin of safety		ifference(1) betweenits, percentage		volume of sales and break-even(1). sales value(1).	2	
		(2 x 1 mark)						

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Question	Answer	Marks	Guidance
(ii)	It provides an assessment of risk(1) by indicating the extent to which expected output can fall(1), before a loss is made(1). It shows the ability to withstand adverse trading conditions(1). The greater the margin of safety(1), the greater are profits(1) and the safer(1) is the company's position. (6 x 1 mark)	6	
(e)*	Total sales unlikely to be linear(1). Likely that different prices will be charged to different customers(1). A high volume customer is likely to pay less than a low volume customer(1). Total costs are unlikely to be linear(1). Variable costs are likely to fall(1) as quantity increases(1). Fixed costs are likely to be in stepped movements(1) when output(1) exceeds a certain level(1). It is difficult(1) to split some costs into fixed and variable(1). Some costs may include both fixed and variable costs(1). Most businesses make more than one product(1) and although multi product graphs can be prepared(1), they are only reliable for a specific sales mix(1). Data is estimated(1) and may not materialise(1), this will change break-even value(1). (3 x 3 marks) (1 for point plus up to 2 for development) QWC	9	
	Total	38	

	Question			Answer	Marks	Guidance
2	(a)*		Opening stock Production Sales Closing stock	2011 2012 - 500 10,000 12,000 10,000 12,500 9,500 11,600 500 900	17	
			Variable costs Fixed costs Total costs	290,000 432,000 30,000 48,000 320,000 480,000		
			Marginal costing closing st	<u>tock</u>		
			2011 290,000 X 500 10,000	14,500		
			2012 432,000 X 900 12,000	32,400		
			Absorption costing closing	stock		
			2011 320,000 X 500 10,000	16,000		
			2012 480,000 X 900 12,000	36,000		

Question			Marks	Guidance			
	Marginal costine	g	<u>2011</u>		<u>2012</u>		
	Sales O/stock Var costs	290,000 290,000	570,000 (1)	14,500 <u>432,000</u> 446,500	638,000 (1)		Allow individual variable costs
	C/stock Contribution Fixed costs Gross Profit	<u>14,500</u> (1)	275,500 294,500 30,000 (1) 264,500 (1)	<u>32,400(1)</u>	414,100 223,900 48,000 (1) 175,900 (1)		
	Absorption cost	ing					
	Sales O/stock Var costs Fixed costs	- 290,000 <u>30,000</u> 320,000 (1)	<u>2011</u> 570,000	16,000 432,000 <u>48,000</u> 496,000 (1)	<u>2012</u> 638,000		
	C/stock Gross Profit	<u>16,000</u> (1)	304,000 266,000 (1)	<u>36,000(1)</u>	460,000 178,000 (1)		
					QWC (3)		
(b)	Stock valuation This is not(1) th	e case with marg	1). fair share(1) of pi inal costing(1), who cision making(1) w	nich excludes fixe	d costs(1).	6	
	(6 x 1 mark)						
					т,	otal 23	

Question				Answer		Marks	Guidance
(a)	Net profit Depreciatior Cash flow excludes resi		Product 63 20,000 15,000(1) 35,000(1)	Product 64 40,000 30,000(1) 70,000(1)		4	
	(ii) Payback Product 63 1 yr + 30 = 1.86 yrs(2) 35		6(2)	$\frac{\text{Product 64}}{2 \text{ yrs} + \frac{20}{70}} = 2.2$	29 yrs (2)	4	
	(iii)	Product 63 Year 1 2 3 4 4 Capital cost Net present value Product 64	Cash flow 35,000 35,000 35,000 35,000 5,000	Disc factor 0.909 0.826 0.751 0.683 0.683	Present value 31,815(1) 28,910 26,285 23,905(1) 3,415(1) 114,330 65,000(1) 49,330(1)	10	27,320(2)
		Year 1 2 3 4 5 5 Capital cost Net present value	Cash flow 70,000 70,000 70,000 70,000 70,000 10,000	Disc factor 0.909 0.826 0.751 0.683 0.621 0.621	Present value 63,630(1) 57,820 52,570 47,810 43,470(1) 6,210(1) 271,510 160,000(1) 111,510(1)		49,680(2)

Question	Answer	Marks	Guidance
(b)	No account(1) is taken that earnings may accrue(1) after the payback period(1) and we are not considering the full period(1).	6	
	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).		
	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).		
	(2 x 3 marks) (1 for point plus up to 2 for development)		
	Total	24	

	Questi	ion				Answe	r			Marks	Guidance
4	(a)		Cost Ind wages Rep/Maint Canteen Ins m/c Ins prem Dep m/c Heat/light Cons Reapp	Basis Emp M/c hrs Emp M/c cost Prem area M/c cost Prem area Alloc Canteen Maint	Total 900,000 150,000 62,000 41,000 32,000 30,000 12,500	Mach 337,500(1) 142,500(1) 23,250(1) 30,750(1) 14,400(1) 22,500(1) 17,100(1) 6,200(1) 19,200(1) 89,600(1) 703,000 703,000 £1.85(1) DMH	Assy 432,000(1) 7,500 29,760 10,250 12,800 7,500 15,200(1) 3,490 21,600 22,400 562,500	Maint 90,000(1) - 6,200 - 3,200 - 3,800 1,600 7,200 112,000(1) (112,000)	Cant 40,500(1) - 2,790 - 1,600 - 1,900 1,210 48,000(1) (48,000)	20	
	(b)		Actual overhead Absorbed overhead 1.85 x 370,000		69 68	ach 0,000 <u>4,500</u> (2) <u>5,500</u> under(<i>1</i>	1)		6	1.85(1) 370,000(1)	
			Actual over Absorbed o	head verhead 2.25	5 x 260,000	57) <u>58</u>	<u>-,</u> 7,000 <u>5,000</u> (2) <u>8,000</u> over(1)				2.25(1) 260,000(1)

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

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