

GCE

Accounting

Advanced GCE

Unit F014: Management Accounting

Mark Scheme for January 2012

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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.

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Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annesley NOTTINGHAM NG15 0DL

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E-mail: publications@ocr.org.uk

Q	uesti	ion	Answer	Marks	Guidance
1	(a)	(i)	Receipts Sales 50@200 10,000 Qty 390 70@200 14,000 0 60@206 12,360 0 70@206 14,420 0 96@190 18,240 0 52@210 10,920 0 398 79,940 FIFO 8 @ 210(1) = 1,680(2)	3	
		(ii)	LIFO 8 @ 200 (1) = 1,600 (2)	3	
	(b)		Sales July to September 200 + 50% = 300 x 178 = 53,400 October to December 300 + 3% = 309 x 212 = 65,508 118,908 Trading and Profit and Loss Account for the six months ended 31 December 2011	1	
			Sales Opening stock Purchases 79,940 Closing stock Cost of sales Gross Profit Expenses Net Profit 118,908(2) 79,940 79,940 1,600 78,340 40,568 24,000 16,568(1)		

Question	Answer	Marks	Guidance
(c)	Usually unrealistic if based on assumption that the most recent purchases are sold before older stock. Stock valuation is at older prices and may not relate to current costs.	4	
	Not acceptable for the purposes of SSAP 9/IAS2 or for HMRC for tax purposes		
	(2 x 2 marks) (1 for point plus, 1 for development)		
	Total	15	

C	uestio	n		Answer			Marks	Guidance
2	uestio (a)*	Machinery Materials Dir labour Bal c/d Plant hire Sub contra Architect's Cost to da Notional p	740,000 32,000 actors s fees ate b/d	Contract Accoudate 420,000 1,200,000 1,200,000 1772,000 128,000 96,000(1) 49,000(1) 2,665,000 2,178,000(1) 450,000	Material returns Materials c/d Plant hire c/d Machinery Machinery c/d Cost to date c/d	62,000 (1) 190,000 5,000 50,000 (2) 180,000 (2) 2,178,000 2,665,000 2,500,000 (2) 128,000 2,628,000	Marks 19	Guidance
		Profit and Profit prov Materials I Plant hire Machinery Work not y	vision c/d b/d b/d	2,628,000 255,000(1) 195,000 450,000 190,000(1) 5,000(1) 180,000 128,000(1)	Profit provision b/d	2,628,000 450,000 450,000 32,000(1) 195,000(1)	16 QWC (3)	
	(b)	two-th Realisation profit s allowe	should only be realised, possibility of probl	s does cash receiv ed when earned. Ta ems later and addi			6	

Question	Answer	Marks	Guidance
(c)	Local economy - employment of local labour - purchase of materials from local suppliers - charitable donations to local causes - multiplier impact on local economy - contribute to local infrastructure as part of contract Labour force - health and safety at work - minimum wage rates - contract of employment, rights of employee - social programme, benefits, societies (Each section 2 x 2 marks) (1 for point plus, 1 for development)	8	
	Total	33	

Q	uest	ion	Answer	Marks	Guidance
3	(a)	(i)	Sales 18,500 Variable Costs 14,000 Contribution 4,500(1) Qty x 400 1,800,000 Fixed Costs 810,000(1) Profit 990,000(1)	3	
		(ii)	B/E = $\frac{810,000}{4,500}$ = 180(1) x 18,500 = 3,330,000(1)	2	
		(iii)	MOS = $400 - 180 = 220$ (1) $\frac{220}{400} = 55\%$ (1)	2	
	(b)	(i)	Danport Elton Franley Gomerton Sales 18,500 17,000 13,800 16,000 Var Cost 14,000 15,600 14,000 15,000 Contribution 4,500 1,400 (200) 1,000 Total Positive Contribution 1,800,000(1) 1,800,000(1) 1,800,000(1) Elton 1,400 x 300 420,000(1) 2,500,000(1) Gomerton 1,000 x 280 280,000(1) Fixed costs 1,110,000(1) Profit 1,390,000(1)	5	

Question		Answer		Marks	Guidance
(ii)	Cont 4,500 1 L/F 4,000 5	Elton Gomerton 1,400 1,000 5,500 3,800 0.255 0.263 Brd 2nd (1 priority)		10	
	Direct labour Danport 4,000 x 400 Gomerton 3,800 x 280 Elton 5,500 x 180		3,654,000 (1,600,000)(1) 2,054,000 (1,064,000)(1) 990,000 (990,000)(2)		
	Gomerton 1,0	500 x 400 1,800,000(1) 000 x 280 280,000(1) 400 x 180 252,000(1) 2,332,000 1,110,000 1,222,000(2)			

CC Jomat pic needs to consider long term demands in making its decision, not just short term demands. Sa it starts up new airports it will have higher costs and lower revenues.	Question	Answer	Marks	Guidance
Social factors such as global warming may decrease demand. Increased leisure time may lead to increase in demand. Competition from other transport, eg high speed train Creation of new jobs with multiplier impact on local communities. (2 x 2 marks) (1 for point, plus 1 for development)		Jomat plc needs to consider long term demands in making its decision, not just short term demands. As it starts up new airports it will have higher costs and lower revenues. Operating on a wider base will bring more benefits to Jomat plc at other airports. Maximum profit will exclude Franley which is making a negative contribution although it is fairly small. The company may consider running Franley at an initial loss and developing over time. (4 points x up to max 3 marks)		
Total 35	(d)	Social factors such as global warming may decrease demand. Increased leisure time may lead to increase in demand. Competition from other transport, eg high speed train Creation of new jobs with multiplier impact on local communities. (2 x 2 marks) (1 for point, plus 1 for development)		

	Quest	ion	Answer	Marks	Guidance
4	(a)	(i)	Product 18 Year 1 2 3 4 5 Net Profit 10,000 10,000 21,000 18,000 12,00 Depreciation 26,000 26,000 26,000 26,000 26,000 26,000 Cash Flow 36,000 36,000 47,000 44,000 10 38,00 Product 19 Year 1 2 3 4 5 Net Profit 14,000 13,000 15,000 9,000 6,000 Depreciation 33,000 33,000 33,000 33,000 33,000 Cash Flow 47,000 46,000 48,000 42,000 15,000	<u>0</u> 0 0 +	
		(ii)	Product 18 3yrs + 11,000 = 3.25 years(2) 44,000 Product 19 3yrs + 39,000 = 3.93 years(2) 42,000	4	

	(iii) Net pres	ent value				
					8	
	Product '					
			CF DF	PV		
			36,000 0.909	32,724 (1)		
			36,000 0.826	29,736		
			47,000 0.751	35,297		
			44,000 0.683	30,052		
		5	38,000 0.621	23,598		
				151,407 (1)		
		Capital cost		<u>130,000(1)</u>		
		Net present value		<u>21,407(1)</u>		
	Product Year	1 <u>9</u> CF	DF	PV		
	1	47,000	0.909	42,723 (1)	\dashv	
	2	46,000	0.826	37,996		
	3	48,000	0.751	36,048		
	4	42,000	0.683	28,686	 	
	5	39,000	0.621	24,219		
	5	15,000	0.621	9,315	-	
		,		178,987 (1)		
	Capital	cost		180,000(1)	7	
1 1		sent value		<u>(1,013)</u> (1)	7	

Question	Answer	Marks	Guidance
(iv)	Accounting rate of return Product 18 Average net profit = 71,000 = 14,200	4	
	ARR $\frac{14,200}{130,000} = 10.92\%$ (2)		
	Product 19 Average net profit = $57,000$ = 11,400		
	ARR <u>11,400</u> = 6.33% (2) 180,000		

Question	Answer	Marks	Guidance
(b)*	Payback is useful in technological industries where a short payback is preferred. It uses cash flow which is not subjective. It considers payback period only and does not take future cash flows into account. Timing is not taken into account.	14	
	Net present value recognises the time value of money and compares future cash flows with present cash flows. All cash flows are taken into account. It uses cash flow which is not subjective.		
	Future rate of interest is likely to vary.		
	Accounting rate of return can be compared to the profitability of the business. The full period is taken into account, but timing is not considered.		
	Profit is subjective and depends on policies adopted.		
	(Each method up to 2 marks for an advantage and up to 2 marks for a disadvantage) (1 for point, plus 1 for development) Maximum 12 marks	12 QWC (2)	
(c)	The £20,000 has already been spent it is irrelevant(1). It should be ignored in the capital expenditure decision(1). It is a sunk cost(1). (3 x 1 mark)	3	
	Total	37	

OCR (Oxford Cambridge and RSA Examinations) 1 Hills Road Cambridge **CB1 2EU**

OCR Customer Contact Centre

Education and Learning

Telephone: 01223 553998 Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

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