

Mark Scheme

June 2016 **Results**

Pearson LCCI (ASE20098) Level 3 Management Accounting

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ASE20098

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded.
 Examiners should always award full marks if deserved, i.e. if the
 answer matches the mark scheme. Examiners should also be prepared
 to award zero marks if the candidate's response is not worthy of credit
 according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

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Question Number	Answer						Mark
1(a)	Award marks for workings where figures in table are incorrect. Variance figure is of - must give correct indication of fav or adverse						
	Cost element Flexible budget Actual Variance 13,200 units costs						
	Direct materials 1of	616 122	2	616 982	860	Adv	
	Direct labour 1of	432 216	2	423 932	8 284	Fav	
	Production overheads 1of	483 660	3	489 950	6 290	Adv	
	Administration overheads	285 300	1	284 100	1 200	Fav	
	Workings Direct materials:						
	468 000 / 10,000 = \$46.80) per unit / 3 =	\$15.60 p	er kg			
39,600kg (13,200 x 3kgs) x \$15.60 = \$617 760 (1)							
	less 2,100 (39,600 – 37,50	00) x \$0.78 =	1 638 \$616 122	(1)			
	Direct labour						
	\$324 000 / 10,000 = \$32. 4	10 per unit x 1	2,500 =	\$405 (000 (1))	
	$(13,200 - 12,500) = 700 \text{ units } x (32.40 + 20\%) $38.88 = \frac{27 216}{$432 216}$ (1)						
Production overheads (\$488 700 - \$27 000) \$461 700 - \$436 500 =							
						(1)	
	Fixed element = \$436 500	less \$63 000	(10,000 x	\$6.30) = \$373	500	(1)	
	13,200 x \$6.30 = \$83,160	+ \$373 500 +	\$27 000 =	: \$483 660		(1)	(12)

Question	Answer	
number		Mark
1(b)	Award 1 mark for explanation and 1 mark for development.	
	To allow costs to be predicted for the actual level of activity that occurs (1) This will give a meaningful comparison of actual costs with (flexed) budgets(1)	
		(2)

Question number		Mark
1(c)	Award up to 2 marks for definition. Award 1 mark for identification of example. Award 1 mark for development.	
	The principal budget factor is the factor that determines or limits (1) the budget or activity level of all other factors (1). The supply or demand of a factor determines if it is the principal budget factor (1).	
	If a company is limited to producing 1,000 units a month because of the available labour force(1) that will be the principal budget factor limiting all the other factors, e.g. sales levels and material requirement (1)	
		4

Total for question 1 = 18 marks

Question	Answer		
number		Mark	
2(a)(i)	Award 1 mark for all entries, correct, on debit side. Award 1 mark for all entries, correct, on credit side. Award 1 mark for correct calculation of WIP on credit side.		
	Raw Materials Control Account Balance b/d 76,550 1 W I P control 482,350 1 Financial ledger control 535,600 Prod ohs control 39,100 1 Balance c/d 90,700 612,150		
	<u>5.=,</u>	(3)	

Question	Answer	
number		Mark
2(a)(ii)	Award 1 mark for all entries, correct on debit side. Award 1 mark for all entries, correct, on debit side. Wages Control Account	
	Financial ledger control 224,880 W I P control 149,460 1 Prod ohs control <u>75,420</u> 224,880 (1)	(2)

Question number	Answer	Mark		
2(a)(iii)	Award 1 mark for all entries, correct on debit side (ex Bal c/d). Award 1 mark for all entries, correct, on credit side. Award 1 mark for correct Balance c/d and placement on debit side.			
	Production Overheads Control Account Balance b/d 4,860 Raw materials control 39,100 Wages control 75,420 Financial ledger control 50,850 Production Overheads Control Account W I P control 172,500 (1)			
	Balance c/d 1	(3)		

Question number	Answer	Mark		
2(a)(iv)	Award 1 mark for entries on debit side (allow OF for Mats control). Award 1 mark for all entries on credit side (excluding FG control). Award 1 mark for of calculation of FG control on credit side.			
	W I P Control Account			
	Balance b/d 40,550 Finished good 822,645 1of Materials control 482,350 of Wages control 149,460			
	Prod ohs control <u>172,500</u> J Balance c/d <u>22,215</u>			
	<u>844,860</u> <u>1</u>	(2)		
		(3)		

Question	Answer	
number		Mark
2(a)(v)	Award 1 mark for all correct debit entries (allow OF for WIP control). Award 1 mark for all correct credit entries, (excl Prod cost of sales). Award 1 mark for correct Prod cost of sales, on credit side.	
	Finished Goods Control Account	
	Balance b/d 58,850 (1) Prod cost of sales 833,260 1	
	WIP control <u>822,645</u> of Balance c/d <u>48,235</u>	
	<u>881,495</u> (1)	(3)

Question number	Answer	Mark		
2(a)(vi)	Financial Ledger Control Account			
	Sales 946,250 1 Balance b/d 180,810 535,600 Wages control Prod ohs control Profit c/d (W2) 112,990 1 1,105,130 of 1,105,130			
	W1 Balance = \$90,700 + W I P 22,215 + FG 48,235 - Prod o/h 2,270 = \$158,880 of			
	W2 Sales 946,250 less Production cost of sales 833,260 = Profit \$112,990of	(4)		

Question	Answer	
number		Mark
2(b)	Integrated accounts are a set of accounting records that provide both financial and cost accounts (1) using a common input of data (1)	(2)

Question	Answer	
number		Mark
2(b)	Non-integrated accounts are a system where the cost accounts are distinct from the financial accounts (1). The two sets of accounts are kept in agreement by the use of controls accounts (1)	(2)

Total for question 2 = 22 marks

Question	Answer					
number						Mark
3(a)	Workings: 3,000 units of Exe x 4 ho hours = 12,500; and 2,000 units of This equals 30,500 (1) direct labour Overheads = \$341 400 / 30 500 = Workings: Exe = 4 labour hours x \$55.95; Zed = 3 x \$11.19 = \$33.57 Prod overhead cost per unit Direct materials	Zed x 3 r hours • \$11.19 \$11.19 =	per labo \$44.76;	5,000. ur hour Whye = 9 Zed	1of 5 x \$11.19 =	Walk
	Direct labour 56.00 70.00 42.00 1					
	Overheads 44.76 55.95 33.57 1of					
	TOTAL	160.76	173.95	111.57	1 of	(6)

Question	Answer								
number					Mark				
3b	Inspection/Set up \$99 600 / 600(1)_= \$166 per production run (1) Exe = \$166 x 150 = \$ 24 900 / 3 000 units = \$8.30 per unit Whye = \$166 x 200 = \$33 200 / 2 500 units = \$13.28 per unit Zed = \$166 x 250 = \$41 500 / 2 000 units = \$20.75 per unit								
	Machining \$93 100 / 24 500(1) = \$3.80 per machine hour (1) Machine hours = $2.5 \times 3000 + 4 \times 2500 + 3.5 \times 2000 = 24,500$ Exe = 2.5 m/c hrs x \$3.80 = \$9.50 Whye = 4 m/c hrs = \$15.20 Zed = 3.5 m/c hrs = \$13.30								
	Packaging \$49 500 / 550(1) = \$90 per order (1) Exe = \$90 x 150 = \$13 500 / 3 000 units = \$4.50 per unit Whye = \$90 x 175 = \$15 750 / 2 500 units = \$6.30 per unit Zed = \$90 x 225 = \$20 500 / 2 000 units = \$10.12 per unit								
	Material handling \$99 200 / 31 000(1) = \$3.20 per kg used (1)								
	Material quantity: (3,000 x 5kg) 15,000 + (2,500 x 4kg) 10,000 + (2,000 x 3kg) 6,000 = 31,000 Exe = 5 kg x \$3.20 = \$16.00 Whye = 4 kg x \$3.20 = \$12.80 Zed = 3 kg x \$3.20 = \$9.60								
	Prod overhead cost per unit	Exe	Whye	Zed					
	Inspection / set- up costs	8.30	13.28	20.75 1					
	Machinery costs	9.50	15.20	13.30 1					
	Packaging Material handling	4.50 16.00	6.30 12.80	10.12 1 9.60 1					
	Overheads (sub total)	38.30 of	47.58 of						
	(22.2.2.2.7)	Exe	Whye	Zed					
	Direct Materials	60.00	48.00	36.00					
	Direct Labour	56.00	70.00	42.00					
	Overheads	38.30	47.58	53.77					
	TOTAL 1of	154.30 of	165.58	1of 131.					
	101				(14)				

Question	Answer	
number		Mark
3(c)	Award up to 4 marks for analysis points. Award up to 2 marks for conclusion. Answers may include:	
	Not all costs are able to be related to e.g. labour activity (1) so the use of absorption costing may not be appropriate (1).	
	With ABC costs are allocated on a discreet usage basis. Products that use more of an activity are charged a higher proportion of the overall cost (1) e.g. product Zed has the highest number of orders and should therefore be allocated the greatest proportion of packaging costs. (1)	
	Products made in smaller batches (i.e. Zed) cause an increase in costs (1) and should therefore be charged more (pro rata) using ABC, than those made in larger batches (1)	
	Using absorption costing, products Exe and Whye are subsidising product Zed (1). The overheads for Exe, Whye, and Zed are \$44.76, \$55.95, and \$33.57. Using the ABC the overhead costs are \$38.30, \$47.58, and \$53.78. It can be seen that product Zed has now been charged with a more appropriate cost. (1)	
	Conclusion Activity- based costing builds up a more realistic allocation of costs (1) an advantage of which could be, e.g., that a more accurate selling price can be calculated for specific products (1)	(6)

Total for question 3 = 26 marks

Question	Answer						
number					Mark		
4(a)	Award 1 mark for each co	rect overhea	d absorption ra	ite.			
	Cost centre overhead absorption rates						
		Assembly	Finishing	Testing			
	Total overheads	255,000	292,500	200,000			
	Machine hours	15 000	15 000				
	Direct labour hours			<u>10 000</u>			
		\$17.00 1	\$19.50 1	\$ 20.00 1			
		Per m/c hr	per m/c hour	per direct labour hour	3		

Question	Answer							
number					Mark			
4(b)	Award 1 mark for each correct overhead absorbed. Award 1 mark for each overhead incurred including correct identification.							
	Calculation of over/under absorption:							
	Assembly Finishing Testing							
	Actual machine / labour hour	14 855	14 950	10 100				
	Overhead absorption rate - \$	<u> 17.00</u>	<u> 19.50</u>	20.00				
	Overheads absorbed - \$	252 535 1of	291 525 1of	202 000 1of				
	Overheads incurred - \$	228 500	281 400	<u>204 500</u>				
	Over/under absorption - \$	24 035 1of	10 125 1of	2 500 1of				
	•	over	over	under				
		absorbed	absorbed	absorbed				
					(6)			

Question	Answer		
number			Mark
4(c)(i)	Allocation is the charging of a whole item of cost to a cost centre	(1)	(1)

Question number	Answer	Mark
- (-) ()	Apportionment is the sharing of overheads between two or more cost centres (1)	(1)

Question	Answer		
number			Mark
4(c)(iii)	Absorption is a method of charging overheads to a product or service	(1)	(1)

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Question	Answer	
number		Mark
- (-) ()	Under absorption is when insufficient overheads are charged to a product or service (1)	(1)

Total for question 4 = 13 marks

Question	Answer	
number		Mark
5(a)(i)	Net present value is the conversion of future cash flows into present-day values (1) which shows the discounted value of the investment/project (1)	
		(4)

Question	Answer	
number		Mark
5(a)(ii)	Internal rate of return estimates the interest rate/cost of capital (1) at which the discounted cash flow is zero (1)	
		(4)

Question number	Answer					Mark
5(b)(i)	Net present v	alue – 10%				
		_				
		N	<i>l</i> lachine A	1		
	Year	Cash flow	Factor	Present valu	ıe	
		\$000		\$000		
	0	(560)	1.000	(560.00)	1	
	1	120	0.909	109.08		
	2	260	0.826	214.76		
	3	200	0.751	150.20	1	
	4	220 *	0.683	<u>150.26</u>	1	
				64.30		
	,			•	_	
	(130 +	60 + 30)	NPV	= \$64,300	1	
						(4)

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Question	Answer					
number						Mark
5(b)(ii)	Internal rate	of return – 1	15%			
			Machine	Α		
	Year	Cash flow	Factor	Present valu	e	
		£000		£000		
	0	(560)	1.000	(560.00)		
	1	120	0.870	104.40		
	2	260	0.756	196.56		
	3	200	0.658	131.60		
	4	220	0.572	<u>125.84</u>	1of	
				<u>(1.60</u>)	1of	
	IRR for Mach	nine A = 10%	5 + {5% ×	64.30 ÷ (64.30	0 + 1.60)]} 1 = 14.88% 1	
	Award 1 mar	k for each p	art calcul	ation of the IF	RR.	
						(4)

Question	Answer	
Number		Mark
5(b)iii	Discounted payback period	
	Machine A Year Cash flows Cumulative cash flows £000 £000 0 (560.00) (560.00) 1 109.08 (450.92) 2 214.76 (236.16) 3 150.20 (85.96) 1 4 150.26 = 3 years (1) + (85.96 / 150.26) = 3.57 years (1)	
	Accept: = 3 years (1) + (130 x 0.683) = 3.96 years	
		(3)

Question	Answer	
	ALISWEI	Mork
Number		Mark
5(c)	Award up to 4 marks for analysis. Award 2 marks for evaluation. Answers may include:	
	/	
	Case for Machine A	
	Machine A has a lower capital cost (1) higher IRR (1) and a shorter payback period (1).	
	Case for Machine B Machine B has a higher net present value (1). We need more information on B to be able to make a valid judgement (1).	
	Conclusion Figures for costs and revenues are only estimates (1) Machine A or B could be selected (1) – if conclusion follows from argument above.	
		(6)

Total for question 5 = 21 marks

TOTAL FOR PAPER = 100 MARKS