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# Answers

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Section A

- 1 C
- 2 D
- 3 D
- 4 B
- 5 B
- 6 C
- 7 C
- 8 D
- 9 A
- 10 B
- 11 D
- 12 D
- 13 A
- 14 D
- 15 C
- 16 C
- 17 B
- 18 B
- 19 A
- 20 C

Workings to computational MCQs:

- 5  $[156,980 - (7,400 \times 12.20)]$
- 6  $[(102 \div 6) - (126 \div 8)]$
- 8  $(410 \times 13.00)$
- 10  $[(800^2 \times 1.5) \div (2 \times 12,000)]$
- 14  $(42,293 \div 2,640 = \text{£}16.02 \text{ per m/c hr}) - \text{highest rate}$
- 15  $\{700,000 - [(56,000 \times 7.9) + 144,000]\}$
- 17  $\{[17.50 - (7.60 + 1.40)] \div (17.50 \div 100)\}$
- 18  $(11.50 - 8.00 = 3.50 \text{ per unit}) - \text{min extra cost of buying-in}$
- 19  $[14 + 6(16,000 \div 26,500)]$
- 20  $(8,000 \times 4.791)$

**Section B**

**1 (a)** Estimated production costs of the job

	£	£
Direct materials		2,893
Direct labour:		
Basic	1,680	(210 hours × £8/hr)
Bonus	252	(210 hours × £1.2/hr*)
	1,932	
Total		1,932
Prime cost		4,825
Production overhead:		
20% of prime cost	965	(£4,825 × 0.2)
£9.00 per direct labour hour	1,890	(210 hours × £9/hr)
	2,855	
Total		2,855
Total production cost		7,680

\* Bonus per hour =  $\{(4,000 - 3,400) \div 4,000\} \times £8/\text{hr} = £1.20$  per hour

**(b)** Quote for the job

	£	
Total production cost	7,680	
Other overheads	1,920	(£7,680 × 0.25)
	9,600	
Total cost	9,600	
Profit	2,400	[(9,600 ÷ 0.8) - 9,600]
	12,000	
Selling price	12,000	

- 2 (a)**
- (i)** £400,000 (where the profit line of Company A crosses the horizontal axis)
  - (ii)** £180,000 (the loss at zero activity for Company A)
  - (iii)** Company A (steeper slope of profit line, compared with Company B)
  - (iv)** £480,000 (sales at the point where the profit lines of the two companies cross)

**(b)** Company A – contribution/sales ratio

Contribution to break even

\_\_\_\_\_

Sales at break-even point

= £180,000 (fixed costs)

\_\_\_\_\_

£400,000

= 45%

Thus  $180,000 \div 0.45 = £400,000$

- 3 (a) (i) A code is 'a system of symbols designed to be applied to a classified set of items to give a brief, accurate reference facilitating entry, collection and analysis' (CIMA Official Terminology).
- (ii) A coding system should:  
for example:
- be easy to use
  - allow room for expansion
  - have a unique code for each item

(b) (i) Allocated and apportioned overheads by cost centre

	P1	P2	Cost Centre Materials Store	Employee Facilities	Total
	£	£	£	£	£
Allocated	107,000	89,000	68,000	84,000	348,000
Apportioned:					
Building depreciation & insurance (on the basis of floor space occupied)	15,960	19,740	2,520	3,780	42,000
Management salaries (on the basis of number of employees)	9,000	12,000	3,000	3,000	27,000
Power to operate machinery (on the basis of machine hours)	6,510	6,090	—	—	12,600
Other utilities (on the basis of % share given)	3,290	4,230	940	940	9,400
	<u>141,760</u>	<u>131,060</u>	<u>74,460</u>	<u>91,720</u>	<u>439,000</u>
(ii) Re-apportionment					
Employee Facilities (on the basis of number of employees)	34,395	45,860	11,465	(91,720)	
Materials Store (on the basis of % share given)	34,370	51,555	(85,925)		
	<u>210,525</u>	<u>228,475</u>			<u>439,000</u>

4 (a) Gross profit statement

	Product Y	Product Z
	£	£
Sales	24,000	56,000
Joint costs	15,600	36,400
	<u>8,400</u>	<u>19,600</u>
Gross profit (total)		
Gross profit (per unit)	<u>4.20</u>	<u>5.60</u>

Workings:

Sales value:

Product Y 2,000 units at £12/unit = £24,000 (30%)

Product Z 3,500 units at £16/unit = £56,000 (70%)

£80,000

Joint cost apportionment:

Product Y £15,600 (£52,000 × 0.3)

Product Z £36,400 (£52,000 × 0.7)

£52,000

**(b)** Further processing decision

- (i)** Using weight of output as the basis of apportionment it is irrelevant whether each joint product is covering its apportioned costs: the key is whether the joint process as a whole is profitable.

The correct justification for further processing should be on the basis of incremental revenue and cost.

- (ii)** Incremental profit is the correct basis for justifying further processing and it is correct to state that further processing of Product A, to form Product AA, is justified (on the assumption that the joint process as a whole is justified). An incremental profit arises as follows:

	£ per kg
Incremental revenue	2·50 (11·50 – 9·00)
Incremental cost	2·10
	——
	0·40
	——

**ACCA Certified Accounting Technician Examination – Paper T4  
Accounting for Costs**

**June 2006 Marking Scheme**

	Marks	Marks
<b>1 (a)</b> direct materials	1	
direct labour – basic	1	
– bonus	4	
production overhead – % of prime cost	2	
– rate per labour hour	2	10
	<hr/>	
<b>(b)</b> other overhead	2	
selling price	2	4
	<hr/>	<hr/>
		14
		<hr/>
<b>2 (a) (i)</b> breakeven		2
<b>(ii)</b> fixed costs		2
<b>(iii)</b> higher C/S ratio		3
<b>(iv)</b> common level of sales		2
<b>(b)</b> C/S ratio	3	
breakeven	1	4
	<hr/>	<hr/>
		13
		<hr/>
<b>3 (a) (i)</b> system of symbols	1	
classification	1	
referencing	1	3
	<hr/>	
<b>(ii)</b> 1½ marks for each		3
<b>(b) (i)</b> allocated	1	
apportioned – 1½ marks for each	6	7
	<hr/>	
<b>(ii)</b> re-apportioned – 2 marks for each		4
		<hr/>
		17
		<hr/>
<b>4 (a)</b> sales value	2	
joint cost apportionment	3	
statement	4	9
	<hr/>	
<b>(b) (i)</b> correct justification – up to 2 marks		
irrelevance of cost share – up to 2 marks		max 3
<b>(ii)</b> correct basis	1	
correct conclusion	1	
justification	2	4
	<hr/>	<hr/>
		16
		<hr/>