Answers

ACCA Certified Accounting Technician Examination – Paper T4 Accounting for Costs

Section A

1	
1	Α
2	В
3	С
4	D
5	В
6	С
7	С
8	С
9	Α
10	В
11	С
12	В
13	D
14	С
15	С
16	D
17	Α
18	D
19	D
20	c
-0	-

Workings to computational MCQs:

- 5 $[(198,968 - 187,739) \div (129,440 - 117,620)] = 0.95$
- 7 $(1.0 \div 0.8) = 1.25$
- **11** $[(32,170 \times 0.65) + (24,850 \times 0.35)] = 29,608$
- **13** $[3,170 + 4,650 + 3,970 + (11,430 \div 12,700 \times 3,970)] = 15,363$
- **15** { $[61,600 (440 \times 1.80)] \div 21,560$ } = 2.82
- **17** $[87,500 \times (60 \div 180)] = 29,167$
- **18** $[104,976 \div (60 \times 0.8 \times 90)] = 24.30$
- **19** $[(94,000 + 6,000) \times (7.00 \div 2.80)] = 250,000$
- **20** [$(81,000 + 8,683) \div 3.037$ } or $(81,000 \div 2.743) = 29,530$

Section B

1 (a) (i) Cost unit

Defined by CIMA Official Terminology as 'a unit of product or service in relation to which costs are ascertained'.

Examples include: Operation (in a hospital) i.e the cost per operation is calculated Barrel (in the brewing industry) i.e the cost per barrel is calculated

(ii) Cost centre

Defined by CIMA Official Terminology as 'a production or service location, function, activity or item of equipment for which costs are accumulated'.

Examples include: Raw material preparation, order processing department

(b) Cost centres, profit centres and investment centres all involve the assignment of responsibility for business performance to individual business managers. The distinction between the different types of responsibility centre is what individual managers are held accountable for. This depends upon their respective spheres of influence.

As defined in (a) above, and as the name implies, cost centre managers are accountable only for those costs of an organisation that come within their sphere of influence, for example the manager of an administration department would be responsible for the costs under his/her control. On the other hand profit centre managers are accountable not only for certain costs but some revenues also, and thus for a level of profit for example measured by the profit percentage of sales. An investment centre manager is responsible for profit but with additional responsibility for capital investment: performance may be measured by return on investment.

£2,170.50

2 (a) Time rate payment system

(b)

(i)	Labour cost per unit (output 2,500 units per	week):		
	(6 operatives x 40 hours x £8.00 per hour) =	= £1,920		
	£1,920 \div 2,500 units = £0.768 per unit			
(ii)	% change in labour cost per unit (output 2,7	50 units per week)		
	\pounds 1,920 ÷ 2,750 units = \pounds 0.698 per unit			
	Reduction in unit cost = $[(\pounds 0.768 - \pounds 0.698)]$	s) ÷ £0·768] x 100	% = 9.1%	
Incentive scheme				
(i)	Labour cost per unit (output 3,080 units per	week)		
	Basic: 6 operatives x 40 hours at £4.00 per hour Differential piecework:		£ 960∙00	
	2,500 units at £0.375 per unit	937.50		
	500 units at £0·45 per unit 80 units at £0·60 per unit	225·00 48·00	1,210.50	

 $\pounds 2,170.50 \div 3,080$ units = $\pounds 0.705$ per unit

(ii) Level of output for common total labour cost

	£	
Current system cost	1,920.00	
Less:		
Incentive scheme basic	960.00	
Piecework payments Less:	960.00	
Incentive scheme initial piecework	937·50	(for 2,500 units)
Additional piecework payments	£22·50	

 $\pounds 22.50 \div \pounds 0.45$ per unit = 50 units (in excess of previous level)

Level of output = 2,550 units (2,500 + 50)

3 (a) Predetermined production overhead absorption rates

Department X – £51,240 ÷ 4,200 machine hours = £12·20 per machine hour Department Y – £87,120 ÷ 5,280 machine hours = £16·50 per machine hour Department Z – £66,816 ÷ 11,520 direct labour hours = £5·80 per direct labour hour

(b) Over/under absorption of overhead (Month 1)

	Overhead incurred	Overhead absorbed	Over/(under) absorption
	£	£	£
Department X	4,410	4,148 (340hrs a	at 12·20) (262)
Department Y	7,190	7,029 (426hrs a	at 16.50) (161)
Department Z	5,610	5,713 (985hrs a	at 5.80) 103
	17,210	16,890	(320)

(c) General reasons for overhead under absorption

- Actual overhead expenditure greater than budget
- Actual machine hours worked less than budget

4 (a) Contract W

Incremental costs (£):

Labour – Department X	nil	
 Department Y 	2,400	
Materials	5,588	{5,740 – [80 x (6·50 – 4·60)]]
Production overhead	972	$\{[(220 \times 7.50) + 2,400] \times 1.2 \times 0.2\}$
Non-production overhead	nil	
	8,960	

Minimum price to quote for Contract W is £8,960.

(b) Sub-contract work

Net present value:

Time	Cash flow (£)	Discount factor (10%)	Present value (£)
0	(120,000)	1.000	(120,000)
1	40,000	0.909	36,360
2	55,000	0.826	45,430
3	70,000	0.751	52,570
			14,360

Net present value of keeping the machinery for sub-contract work is £14,360.

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Sec	tion E	3		marks	marks
1	(a)	(i)	definition example	1 ¹ / ₂ 1 ¹ / ₂	3
		(ii)	definition example	1 ¹ / ₂ 1 ¹ / ₂	3
	(b)	1 fc	or each + 1 for linkage		4
2	(a)	(i)	weekly total cost cost per unit	1	2
		(ii)	revised unit cost % reduction	1	2
	(b)	(i)	basic pay initial piecework differential piecework cost per unit	1 1 3 1	6
		(ii)	differential piecework payments required extra units level of output	2 2 1	5 15
3	(a)	dep dep	t X ts Y & Z (1 for each)	2	4
	(b)	ove	rhead absorbed (1 for each) r/(under) absorption $(1^{1}/_{2}$ for each) under absorption	3 4 ¹ / ₂ 1 ¹ / ₂	9
	(c)	1 ¹ / ₂	of or each reason		3 16
4	(a)	dep mat proo	t X labour t Y labour erials duction overhead -production overhead		10
	(b)	casl excl disp	ortunity cost of machinery n inflows usion of depreciation posal value of machinery counting & NPV	2 1 2 1 3	<u> </u>