## Mark Scheme

## September 2017 Results

PEARSON LCCI Certificate in Cost and Management Accounting (VRQ) Level 3 (ASE20098)

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## 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.
- Where marks are awarded for own figure answers, these marks can only be awarded if evidence of how the candidate arrived at their values has been provided (their workings).
- If candidate's fail to provide their workings when instructed in the paper, it may not be possible to achieve all marks associated with the question, even if the final answer is correct.
- For calculation questions full marks can be awarded where correct answer is seen with no workings shown, unless question states that candidate must provide workings.


## Abbreviation

## of Own Figure rule

Accuracy marks can be awarded where the candidates' answer does not match the mark scheme, though is accurate based on their valid method.

## cao Correct Answer Only rule

Accuracy marks will only be awarded if the candidates' answer is correct, and in line with the mark scheme.

| Question Number | Answer AO2 (2) | Mark |
| :---: | :---: | :---: |
| 1(a)(i) | ```Contribution/sales ratio Variable costs = Direct labour (2 hours x $6) Direct materials (2 kg x $8) Variable production overheads (2 hours x $8) Total variable costsNone``` | (2) |
| Question Number | Answer AO2 (2) | Mark |
| 1(a)(ii) | Break even point in units $=$ <br> Fixed costs $\$ 81000 / \$ 36$ ( $\mathbf{1}$ of) $=2250$ units ( $\mathbf{1}$ of) | (2) |


| Question Number | Answer AO2 (2) | Mark |
| :---: | :---: | :---: |
| 1(a)(iii) | $\begin{aligned} \text { Margin of safety } & =3500-2250 \\ & =1250 / 3500(\mathbf{1} \text { of }) \\ & =35.7 \%(\mathbf{1} \text { of }) \end{aligned}$ |  |
|  |  | (2) |


| Question <br> Number | Answer AO2 (2) | Mark |
| :--- | :--- | :--- |
| $\mathbf{1 ( b )}$ | Sales units $=36000+81000$ <br> $=117000 / \$ 36(\mathbf{1}$ of)  <br> $=3250$ units (1 of)  |  |
|  |  |  |
|  |  | $\mathbf{( 2 )}$ |


| Question | Answer AO3 (6) |
| :--- | :--- | :--- | :--- |
| Number |  |


| Question <br> Number | Answer AO4 (2) AO5 (2) | Mark |
| :--- | :--- | :--- |
| 1(d) | Using a break even chart enables the company to <br> clearly see the potential areas of profit or loss (1). If <br> the chart was constructed on a spreadsheet the <br> company could do an analysis on the effects of likely <br> changes in the key variables (1). The company could <br> analyse the possible effects on the breakeven/profit of <br> raising the price and or lowering the costs (1). Apart <br> from the breakeven point, the chart clearly shows the <br> margin of safety, thus alerting the company to any <br> potential difficulties (1) |  |


| Question <br> Number | Answer AO1 (2) | Mark |
| :--- | :--- | :--- |
| $\mathbf{1 ( e )}$ | Selling price per unit is constant across the range of <br> activity (1) <br> Total fixed costs are constant across the range of <br> activity (1) <br> Variable costs per unit are constant across the range of <br> activity (1) <br> Cost can readily be split between fixed and variable (1) |  |
| $\mathbf{2 ~ m a r k s ~ m a x i m u m ~}$ | (2) |  |


| Question Number | Answer AO2 (6) |  |  |  |  |  | Mark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2(a) |  |  |  |  |  |  |  |
|  | Product | Q | R | S | T |  |  |
|  | \$ per unit |  |  |  |  |  |  |
|  | Selling price | 128 | 74 | 240 | 192 |  |  |
|  | Less Variable costs: |  |  |  |  |  |  |
|  | Direct | 24 | 18 | 42 | 30 |  |  |
|  | material |  |  |  |  |  |  |
|  | Direct labour | 40 | 20 | 80 | 60 |  |  |
|  | Variable | 32 | 16 | 30 | 48 | (1) |  |
|  | overhead |  |  |  |  |  |  |
|  |  | 96 | 54 | 152 | 138 | (1) |  |
|  | Contribution per unit | \$32 | \$20 | \$88 | \$54 | (1) |  |
|  | Direct labour hours per unit | 4 | 2 | 8 | 6 | (1) |  |
|  | Cont per direct labour hour | \$8.00 | \$10.00 | \$11.00 | \$9.00 | (1) |  |
|  | Order of priority | 4 | 2 | 1 | 3 | (1 <br> of) |  |
|  |  |  |  |  |  |  | (6) |


| Question Number | Answer AO2 (4) | Mark |
| :---: | :---: | :---: |
| 2(b) | Production schedule will all be OF marks based on order of priority in 2(a) <br> Balance of labour hours <br> 32000 <br> Product S <br> 1875 units $\times 8$ labour hours 15000 <br> of) <br> Product R <br> 2250 units $\times 2$ labour hours 4500 of) <br> Product T <br> 1750 units $\times 6$ labour hours $\underline{10500 \quad 30000}$ of) <br> Balance of labour hours 2000 <br> Product Q 500 units x 4 labour hours of) | (4) |


| Question Number | Answer AO2 (5) | Mark |
| :---: | :---: | :---: |
| 2(c) | Contribution schedule will all be OF based on units in $\mathbf{2 b}$ and the contribution in calculated in 2a <br> Product S 1875 units $x \$ 88=\$ 165000$ (1 of) for 1st 2 <br> Product R 2250 units $x \$ 20=\$ 45000$ <br> Product T 1750 units $x \$ 54=\$ 94500$ (1 of) for 2nd 2 of) $\begin{aligned} & \text { Fixed costs }=(1875 \times \$ 40) \$ 75000+(2250 \times \$ 10) \$ 2 \\ & 500+ \\ & (1750 \times \$ 30) \$ 52500+(1500 \times \$ 20) \$ 30000(\mathbf{1})= \\ & \$ 180000(\mathbf{1}) \end{aligned}$ |  |


| Question <br> Number | Answer AO1 (1) AO3 (1) | Mark |
| :--- | :--- | :--- |
| 2(d)(i) | Award 1 mark for initial statement and 1 mark for <br> development. | A sunk cost has already occurred. These are costs that <br> have been created by a previous decision and cannot be <br> amended (1). Sunk costs are irrelevant for future <br> decision making (1) an example could be the lease <br> taken out on a new shop opened (1). |
| $\mathbf{2 ~ m a r k s ~ m a x i m u m ~}$ | (2) |  |


| Question <br> Number | Answer AO1 (1) AO3 (1) | Mark |
| :--- | :--- | :--- |
| 2(d)(ii) | Award 1 mark for initial statement and 1 mark for <br> development. | Incremental/differential costs equate to the <br> difference(s) in total costs between alternative <br> proposals (1). An example would be the additional <br> costs of producing an extra 100 units a week - such as <br> increasing a supervisor's wages by \$100 a week to deal <br> with the additional work (1) Note: A marginal cost <br> equates to the additional cost of producing ONE extra <br> unit. |

TOTAL FOR QUESTION 2-19 MARKS

| Question Number | Answer AO2 (16) | Mark |
| :---: | :---: | :---: |
| 3(a) |  |  |
|  | Profit as per financial accounts 486000 (1) |  |
|  | Inventory adjustments |  |
|  | Raw materials - opening [128 050-133 700] 5650 (1) |  |
|  | Raw materials -closing [128 450-120 680] 7770 (1) |  |
|  | WIP - opening [84 180-80 960] (3 220) (1) |  |
|  | WIP - closing [97 785 - 91590 ] 6195 (1) |  |
|  | Finished goods - opening [109410-9450] (9 960) (1) |  |
|  | Finished goods - closing [127350-123150] $\frac{4200(1)}{4 \frac{10635}{(1)}}$ |  |
|  | Add |  |
|  | Loss on sale of asset 13700 (1) |  |
|  | Discounts allowed 16350 (1) |  |
|  | Interest charges 9750 (1) |  |
|  | Under absorbed overhead $\frac{13980}{53780}$ |  |
|  | Less |  |
|  | Depreciation (64 600-58 350) (6 250) (1) |  |
|  | Discounts received (16 320) (1) |  |
|  | Sundry Investment income (29000) (1) |  |
|  | Notional rent charge $\frac{(15300)}{(66870)}^{(1)}$ |  |
|  |  |  |
|  |  | (16) |


| Question <br> Number | Answer AO1 (1) AO3 (1) | Mark |
| :--- | :--- | :--- |
| 3(b) | They may have used different methods to calculate the <br> depreciation charge (1) <br> Different methods are likely to make higher/lower charges <br> to each set of accounts (1) | (2) |

TOTAL FOR QUESTION 3 - 18 MARKS

| Question Number | Answer AO2 (5) |  |  |  | Mark |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4(a)(i) | Award 1 mark for all closing inventory figures. Award 1 mark for all opening inventory figures. Award 10 of mark for each total figure. Direction of +/- inventory must be correct |  |  |  |  |
|  | Production budget (units) Budgeted sales units Add Closing inventory | Product Aye | Product Bee | Product Cee |  |
|  |  | 3000 | 2000 | $3600 \text { (1) }$ |  |
|  |  | 725 | 360 | 480 (1) |  |
|  |  | 3725 | 2360 | 4080 |  |
|  | Less Opening inventory Budgeted production units | 575 | 550 | 680 (1) |  |
|  |  | 3150 | 1810 | $3400{ }^{\text {(1) }}$ |  |
|  |  |  |  |  | (4) |


| Question Number | Answer AO2 (5) | Mark |
| :---: | :---: | :---: |
| 4(a)(ii) | Accept budgeted production units as OF from a. <br> Do not accept sales units <br> Award 1of for production required figure. Award 1 mark for each of the inventory figures <br> Direction of $+/-$ must be correct for budgeted purchases figure |  |
|  |  | (6) |



| Question <br> Number | Answer AO1 (2) AO3 (2) | Mark |
| :--- | :--- | :--- |
| 4(b) | Award 1 mark for each relevant suggestion. <br> Accept other reasonable suggestions. 2 marks <br> maximum. | Provides a means of communicating management's <br> plans throughout the organisation (1) so that all of the <br> workforce is informed of the company's intentions (1). <br> Forces managers to think about and plan for the <br> future (1). Without which, managers might spend <br> their time dealing with basic daily issues (1). |
| The budgeting process provides a means of allocating <br> resources (1) to those areas proven to be in need <br> and where they can be used effectively (1). | (4)Budgeting co-ordinates the activities of the <br> organisation (1) by integrating the plans of the <br> various departments/ helping to ensure that everyone <br> is pulling in the same direction (1). | Budgets define goals and objectives (1) that can <br> serve as benchmarks for evaluating subsequent <br> performance (1). |


| Question <br> Number | Answer AO1 (2) | Mark |
| :--- | :--- | :--- |
| 4(c) | Award 1 mark for each relevant suggestion. <br> 2 marks maximum. |  |
| The size of the company might dictate shorter budget <br> periods. (1) <br> The complexity of the company - many departments or <br> offices/factories. (1) <br> The requirement of external agencies, like a bank. (1) <br> Government requirements - tax rules. (1) | (2) |  |

TOTAL FOR QUESTION 4-20 MARKS


| Question <br> Number | Answer AO2 (5) | Mark |
| :--- | :--- | :--- |
| $\mathbf{5 ( b )}$ | Expected change in working capital cycle <br> Inventory holding period <br> $=(312 \times 1.15) 358.8 /(2520 \times 1.20) 3024(1) \times 365$ <br> $=43$ days (1 of) <br> Add: Trade receivables collection period $=54+12=$ <br> 66 days (1 of) | $\underline{\text { Less: Trade payables payment period }=34 \text { of }+18=}$(52) days (1 of) <br> Working capital cycle <br> 57 days (1 of) <br> Therefore the expected change is an decrease of 8 days <br> (1 of) |



| Question <br> Number | Answer Answer AO4 (3) AO5 (3) | Mark |
| :--- | :--- | :--- |
| 5(d) | Award 1 mark for initial statement and 1 mark for <br> development | The inventory holding period doesn't appear to change, <br> but the company will be holding a greater value of <br> inventory. There may be unexpected costs associated <br> with increasing the value of the inventory, such as <br> increased storage costs, if additional warehousing has <br> to be made available. (2 max) |

TOTAL FOR QUESTION 4 - 20 MARKS
TOTAL FOR PAPER IS 100 MARKS

