Mark Scheme

## July 2019

Pearson LCCI
Certificate in Cost and Management Accounting (VRQ) (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.

| Question Number | Answer AO2 (2) | Mark |
| :---: | :---: | :---: |
| 1(a)(i) | Break-even point in units: $\begin{aligned} & \begin{array}{l} \text { Selling price } \$ 150.00 \text { less variable costs } \$ 90(\$ 20.00+£ 50.00+ \\ \$ 20.00) \\ =\$ 60 \text { contribution (1) } \\ =\text { Fixed overheads } \$ 160200 / \$ 60=\mathbf{2} \mathbf{6 7 0} \text { units (1of) } \end{array} . \end{aligned}$ | (2) |


| Question <br> Number | Answer AO2 (2) | Mark |
| :--- | :--- | :--- |
| 1(a)(ii) | Margin of safety as a percentage of sales: <br> $=6000-2670=\mathbf{3} 330(1 o f) / 6000=55.50 \% ~(1 o f)$ | (2) |


| Question Number | Answer AO2 (2) | Mark |
| :---: | :---: | :---: |
| 1(b)(i) | Break-even point in units: <br> Selling price $\$ 150.00$ less variable costs $\$ 70(\$ 20.00+\mathbf{E 3 0 . 0 0}+$ $\$ 20.00$ ) $=\$ 80$ contribution (1) <br> Fixed overheads $\$ 224280 / \$ 80=\mathbf{2 8 0 4}$ units (1of) | (2) |


| Question <br> Number | Answer AO2 (2) | Mark |
| :--- | :--- | :--- |
| $\mathbf{1 ( b ) ( i i ) ~}$ | Margin of safety as a percentage of sales: <br> $=6000-2804=3 \mathbf{1 9 6}(10 f) / 6000=53.27 \% \quad$ (1of) | (2) |


| Question <br> Number | Answer AO3 (6) | Mark |
| :--- | :--- | :--- |
| $\mathbf{1 ( c )}$ | See separate Profit Volume chart <br> Award 1 mark for suitable axes <br> Award 1 mark for each correctly labelled break-even point <br> Award 1 mark for each appropriately labelled line - starting with the fixed <br> costs at 0 units and the profit at 6 000 units <br> Award 1 mark for the two correct profit figures | (6) |



| Question <br> Number | Answer AO4 (4) AO5 (2) | Mark |
| :--- | :--- | :--- |
| 1(d) | Introducing the new machine <br> Positive factors <br> The company would make more profit at 6000 units (1) <br> The increased contribution of $\$ 20$ per unit $\times 6000=\$ 120000$ should <br> offset the increased fixed costs of $\$ 64080$ (1) <br> Using additional machinery might improve the quality of the product <br> (1) <br> 2 max <br> Negative factors <br> The company would have a slightly higher break-even (1) <br> The margin of safety as a percentage of sales will be lower (1) <br> Possible redundancy costs / disaffected labour force (1) <br> Availability of funds to purchase the new machinery? (1) <br> Can the company guarantee the level of sales (1) <br> 2 max <br> Conclusion to determine whether to go ahead or remain as stated with <br> reasoning (2) | (6) |

TOTAL FOR QUESTION = 20 MARKS

| Question Number | Answer AO2 (14) |  |  |  |  | Mark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2(a) |  | July | August | September |  |  |
|  | Receipts | \$ | \$ | \$ |  |  |
|  | Cash Sales | 32,000 | 40,000 | 50,400 | (1) |  |
|  | Credit Sales | 128,000 | 128,000 | 160,000 | (1) |  |
|  |  | 160,000 | 168,000 | 210,400 |  |  |
|  | Interest Rec | 188 | 82 OF | 20F |  |  |
|  | Loan Finance | 125,000 |  | 1 |  |  |
|  | Total Inflows | 285,188 | 168,082 | 210,400 |  |  |
|  | Payments |  |  |  |  |  |
|  | Materials | 72,000 | 72,000 | 91,000 | 1 |  |
|  |  | 12800 | 16000 | 21600 | 1 |  |
|  | Variable costs | 64,000 | 86,400 | 86,400 1 |  |  |
|  |  | 76,800 | 102,400 | 108,000 [2] |  |  |
|  | Fixed costs | 25,500 | 25,500 | 25,500 | 1 |  |
| Labels must be correct | Capital Exp 125,000Loan |  |  |  | 1 |  |
|  |  |  |  |  | 1 |  |
|  | Repayment |  | 12,500 | 12,500 |  |  |
|  | Interest overdraft |  |  | $501$ | 10F |  |
| Surplus/d eficit | Total Outflows 299,300 212,400 237,501 |  |  |  |  |  |
|  | Net Cash flow | $(14,112)$ | $(44,318)$ | $(27,101)$ | 10F |  |
| NOT Profit or loss | Opening Bal | 25,000 | 10888 | $(33,430)$ |  |  |
|  | Closing Bal | 10,888 | $(33,430)$ | $(60,531)$ | 1 OF |  |
|  | Example of workings: |  |  |  |  |  |
|  | Sales for July $=4000$ units $x \$ 40=\$ 160000$ 20\% = \$32 800 payable July. |  |  |  |  |  |
|  | Wages and other variable production costs June $=4000$ units $\times \$ 16=\$ 64,000.20 \%=\$ \mathbf{1 2 , 8 0 0}$ in July. July $=$ 5000 units $x \$ 16=\$ 80,00080 \%=\$ 64,000$ payable in July |  |  |  |  |  |
|  | Fixed costs \$28,972 per month Depreciation $\$ 125$ Fixed costs and/or | $\begin{aligned} & \text { less } \$ 3,47 \\ & 000 / 36 \mathrm{~m} \\ & \text { oudget mus } \end{aligned}$ | epreciation ths $=\$ 3,47$ not include d | $\$ 25,500$ <br> reciation |  |  |
|  | Fixed costs and/or budget must not include depreciation |  |  |  |  | (14) |


| Question <br> Number | Answer AO1 (2) AO3 (2) | Mark |
| :--- | :--- | :--- |
| 2(b) | Award 1 (AO1) mark for basic point and 1 (AO3) mark for development  <br> Answers may include:  <br> -The business will be able to identify potential cash flow problems (1) - <br> and be able to arrange the necessary loans / overdrafts etc (1)  <br>  -The business will be able to identify if an action is affordable (1) - and <br> be able to make changes if they are not (1)  <br>  If the business runs short of money (1) - it will not be able to afford to <br> pay its day-to-day costs (1) <br> - If the business is unable to pay its trade payables (1) then it may not  <br> receive any more supplies / may face liquidation (1)  <br> - The company might be able to identify a surplus (1) which they  <br> might be able to invest in the short term (1)  <br> TWO required  | (4) |

TOTAL FOR QUESTION 2 = 18 MARKS

| Question Number | Answer AO2 (15) | Mark |
| :---: | :---: | :---: |
| 3(a) |  | (15) |


| Question <br> Number | Answer AO1 (2) AO3 (2) | Mark |
| :--- | :--- | :--- |
| 3(b) | 1 mark for initial point and 1 mark for development <br> A non-integrated system has two distinct sets of accounts - cost <br> accounts and financial accounts (1) - which need to be kept in <br> agreement by a reconciliation (or the use of control accounts)/ they <br> could also check the accuracy and spot any potential errors (1). | Both sets of accounts may have used different accounting policies <br> (1) such as different valuations for inventory OR different methods to <br> calculate any depreciation charges (1) |
| There are some items that are only entered into one set of accounts (1), such <br> as discounts allowed or discounts received, which are only recorded in the <br> financial accounts OR notional rent, which is only recorded in the cost <br> accounts (1) | (4) |  |


| Question Number | Answer AO2 (9) | Mark |
| :---: | :---: | :---: |
| 4(a)(i) | ```Variable production cost per unit \(=\$ 40+\$ 30+\$ 18=\mathbf{8 8}\) (1) *Fixed production overheads per unit \(=\$ 48000 / 2000=\$ 24\) Total production cost per unit \(=\$ 88+\$ 24=\mathbf{\$ 1 1 2}\) (1) Absorption costing statement```  |  |
| $\begin{aligned} & \$ 246000 \\ & =3 \text { marks } \end{aligned}$ | Total Production cost (A) $\mathbf{2} 200 \times \$ 112 \quad \frac{246.4}{302.4}[3] O F$ | (9) |
| $\begin{aligned} & \$ 241600 \\ & =2 \text { marks } \end{aligned}$ |  <br> Must have both overheads for the profit mark |  |


| Question Number | Answer AO2 (7) |  | Mark |
| :---: | :---: | :---: | :---: |
| 4(a)(ii) <br> DO NOT accept \$206 800 | Marginal costing statement | $\begin{array}{r} \$ 000 \\ 360.0 \end{array}$ $\begin{array}{ll} \frac{(188.0}{172.0} & \text { (1) OF } \\ \\ \left(\begin{array}{ll} 78.0 \end{array}\right) & \text { (1) } \\ \mathbf{9 4 . 0} & \text { (1)OF } \end{array}$ | (7) |


| Question <br> Number | Answer AO2 (2) | Mark |
| :--- | :--- | :--- |
| 4(b) | Reconciliation between the two profits: <br> Absorption costing 98800 <br> Marginal costing $\quad \frac{94000}{4800}$ (1of) <br> Difference <br> Closing inventory 700 <br> Opening inventory $(500)$ <br> $=200$ units increase $\times 24=\$ 4800$ (1of) |  |


| Question <br> Number | Answer AO1 (2) | Mark |
| :--- | :--- | :--- |
| 4(c) | The difference is caused by some of the fixed production overhead cost <br> being included in the absorption costing inventory increase (1). <br> With marginal costing all of the fixed costs are treated as period costs / <br> they only include variable costs. (1) | (2) |


| Question Number | Answer AO2 (6) | Mark |
| :---: | :---: | :---: |
| 5(a)(i) |  | (6) |


| Question Number | Answer AO2 (4) | Mark |
| :---: | :---: | :---: |
| 5(a)(ii) |  | (4) |


| Question Number | Answer AO2 (3) | Mark |
| :---: | :---: | :---: |
| 5(a)(iii) | Calculation of the discounted payback <br> Alternative answer: <br> Year $5(830-30)=800 \times 0.497=397.6$ <br> $391.28 / 397.6 \times 12=4$ years and 11.9 months | (3) |


| Question <br> Number | Answer AO4 (3) AO5 (1) | Mark |
| :--- | :--- | :--- |
| $\mathbf{5 ( b )}$ | The capital investment project is financially worthwhile (1) because: <br> it generates a positive NPV (1), the IRR at $18.46 \%$ is greater <br> than the cost of capital of 15\% (1) and the discounted payback <br> gives a return within the life of 5 years (1). | (4) |


| Question <br> Number | Answer AO1 (2) AO4 (2) AO5 (2) | Mark |
| :--- | :--- | :--- |
| 5(c) | The NPV method recognises that money has a time value. It takes the <br> present value of cash inflows minus the present value of cash outflows <br> (1), to arrive at a net present value of a capital project and selects <br> projects that have positive net present value. (1) <br> The IRR is the cost of capital rate at which the present value of the cash <br> flow matches the initial investment and selects projects that have a rate <br> of return which is higher than the cost of capital. (1) The IRR uses two <br> discount rates and therefore two net present values used in a formula to <br> arrive at a rate of return which is compared to the cost of capital (1). | (6) |
| The IRR does not assess the financial impact on a firm; it only requires <br> meeting a minimum return rate (1) | [Four maximum] <br> The NPV and IRR methods can rank two projects differently, depending on <br> the size of the investment (1) The IRR method is not reliable when <br> dealing with two mutually exclusive investments (1) |  |

