

**GCE** 

# **Business Studies**

Advanced GCE

Unit F294: Accounting

## Mark Scheme for January 2011

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Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annesley NOTTINGHAM NG15 0DL

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| Que | estion | Expected Answer  | Mark | Rationale/Additional Guidance         |
|-----|--------|--|------|---------------------------------------|
| 1   |        | Using Appendix 1, calculate the first year's depreciation charge for ITSL's new production equipment using the following methods:  (a) declining (reducing) balance method  (b) straight line method   |      |                                       |
|     | (a)    | New equipment purchase price (historic cost) = £125,000<br>Declining balance rate to apply= $30\%$ (1)<br>£125,000 x 0.30 = £37,500 (1)  | [2]  | Answer of £87,500: award 1 mark only. |
|     | (b)    | New equipment purchase price (historic cost) = £125,000<br>Estimated residual value = 10% of £125,000 = £12,500<br>Estimated life of the asset = 15 years (1)  | [2]  |                                       |
| 2   |        | Analyse one advantage to ITSL of using the straight-line depreciation method for the new production equipment.  From Harry's point of view, straight-line depreciation is easy to apply and understand. He is also disappointed by the net profit margin, using the figures from Question 1. ITSL's profit would be £30,000 (£37,500 - £7,500) higher if straight-line depreciation was adopted for this equipment. The balance sheet would also have £30,000 higher fixed asset net book value.  On the other hand, increasing net profit will mean that ITSL's tax liability will increase. It is also difficult for Harry to predict that the equipment will be used for 15 years. For example, after a few years, new technology might render this equipment almost redundant and Harry will look to |      |                                       |

| Question | Expected Answer  | Mark | Rationale/Additional Guidance  |
|----------|--|------|--|
|          | replace it.  It is also Harry's estimate that the equipment could be sold after 15 years for 10% of its purchase price. Clearly, it is difficult to predict 15 years into the future!  |      | Only award L1 if answer is limited to 'it's easy to calculate and understand'.   |
|          | Level 3 Candidate demonstrates analytical skills when considering adopting a straight-line depreciation method. (5-6)  |      |  |
|          | Level 2  Candidate demonstrates knowledge and understanding of straight-line depreciation. No context required.  Level 1  (3-4)  |      |  |
|          | Candidate offers only theoretical knowledge of straight-line depreciation. (1-2)   | [6]  |  |
| 3        | <ul> <li>'Harry continues to be frustrated by the level of details which the auditors require'. Analyse two ways in which accounting conventions might apply to ITSL.</li> <li>Knowledge of accounting conventions can encompass a wide range of responses: <ul> <li>boundary rules (entity, periodicity, going concern, quantitative)</li> <li>measurement rules (money measurement, historic cost, realisation, matching, dual aspect, materiality)</li> <li>ethical rules (prudence, consistency, objectivity, relevance)</li> </ul> </li> <li>Context and discussion could include reference to: <ul> <li>materiality - the necessity to value the closing stock regardless of quantity and cost</li> <li>prudence - 'if in doubt, overstate losses and understate profits'. This could apply to the bad debt</li> </ul> </li> </ul> |      | L2 for name of accounting convention with reference to case study.  Bottom L3 can be achieved if <b>one way</b> is well developed within the context.  Bottom L1 if understanding of accounting convention without it being named. |

| Question | Expected Answer   | Mark | Rationale/Additional Guidance |
|----------|---|------|-------------------------------|
|          | <ul> <li>provision and the use of the declining balance methor of depreciation</li> <li>consistency - once specific accounting policies have been adopted; they should be followed in all subsequent accounting periods. Would changing the depreciation method compromise this rule?</li> <li>relevance - auditors should try to present accounts in a 'true and fair view'. This is achieved through applying accounting standards, in the context of ITSI this could apply to depreciation, bad debts and stock valuations.</li> </ul> |      |                               |
|          | Level 3  Candidate demonstrates analytical skills when considering accounting conventions in context.  Level 2  (5-6)   |      |                               |
|          | Candidate demonstrates knowledge and understanding of accounting conventions. No context required. (3-4)  |      |                               |
|          | Level 1 Candidate offers only theoretical knowledge of accounting conventions. (1-2)  | [6]  |                               |
| 4        | Refer to Table 3. Using variance analysis, evaluate how ITSL could improve the costing problem with carrot and coriander soup highlighted by Sheryl Blake.  Knowledge:  planned unit cost of products  a benchmark measurement of resource usage, set in defined conditions  a very detailed analysis known as variance analysis.   |      |                               |
|          | <ul> <li>a very detailed analysis known as variance analysis.</li> <li>variance - the difference between a standard cost are the actual cost incurred</li> </ul>  |      |                               |

| Question | Expected An            | swer               |                |   | Mark | Rationale/Additional Guidance                          |
|----------|------------------------|--------------------|----------------|---|------|--|
|          | investig               | ating why va       | riances have   | cost system is<br>e arisen.<br>tions could include: |      | L3/4 can only be achieved if there is evidence of good |
|          | Basic                  |                    |                |   |      | use of Table 3.  |
|          | Ingredient             | Standard<br>Cost £ |                | Standard-Actual<br>£                                |      |  |
|          | Carrots                | 0.24               | 0.28           | 0.04 adverse  |      |  |
|          | Onions                 | 0.06               | 0.05           | 0.01 favourable                                     |      |  |
|          | Fats                   | 0.05               | 0.06           | 0.01 adverse  |      |  |
|          | Herbs                  | 0.03               | 0.06           | 0.03 adverse  |      |  |
|          | Other                  | 0.02               | 0.03           | 0.01 adverse  |      |  |
|          | Carton                 | 0.04               | 0.04           | 0.00  |      |  |
|          | Total                  | 0.44               | 0.52           | 0.08 adverse  |      |  |
|          | (0.04/0.0<br>• Herbs a | 08) x 100          |                | rse variance.<br>erse variance.                     |      |  |
|          | Ingredient             | Standard           | Actual         | Standard-   |      |  |
|          |                        | Quantity           | Quantity       | Actual  |      |  |
|          |                        | grammes<br>(g)     | grammes<br>(g) | grammes (g)   |      |  |
|          | Carrots                | 252                | 256            | 4 adverse   |      |  |
|          | Onions                 | 54                 | 50             | 4 favourable  |      |  |
|          | Fats                   | 10                 | 12             | 2 adverse   |      |  |
|          | Herbs                  | 5                  | 5              | 0   |      |  |
|          | Other                  | 279                | 277            | 2 favourable  |      |  |
|          | Carton                 | -                  | -              | -   |      |  |
|          | Total                  | 600                | 600            | 0   |      |  |

| Question | Expected Answer   | Mark | Rationale/Additional Guidance |
|----------|---|------|-------------------------------|
| Question | Higher level analysis could include:  There is no overall variance  The actual quantity for carrots is 1.6% above standard (256-252/252) x 100  The actual quantity for onions is 8.0% below standard (50-54/54) x 100  The actual quantity for fats is 20.0% above standard (12-10/10) x 100  The actual quantity for other ingredients is 0.7% below standard (277-279/279) x 100  The actual quantity for other ingredients is 0.7% below standard (277-279/279) x 100  There is no overall variance for quantity.  Summary  The main reasons for the variance in actual costs are the costs for carrots and herbs. The quantities are largely under control and the main ingredients carrots (42%), onions (9%) and other ingredients (46.5%) are either below standard or marginally above. The fats, at 20% above standard, seem to be an issue but still only account for 2% of the total weight. The quantity variances might simply be due to what proportion of ingredients was available at the time of production. Therefore, a standard cost system for analysing the variance of quantity used might be insignificant.  The cost variance, therefore, is not largely due to the inefficiency of the production method but due to the price of ingredients, especially the price of carrots and herbs. As indicated in the case study, there are fluctuations in the | Mark | Rationale/Additional Guidance |
|          | indicated in the case study, there are fluctuations in the price of materials due to the fact that many ingredients are imported. Other external factors not mentioned in the case could also be mentioned, eg supply shortages due to poor growing conditions etc.  Overall the benefits of introducing a standard cost system need to set against the costs such as IT systems and  |      |                               |

| Question | Expected Answer   | Mark | Rationale/Additional Guidance |
|----------|---|------|-------------------------------|
|          | administrative time.  However, a standard cost system would become part of a company wide budget system and, in the long-term, help ITSL to improve profitability.  |      |                               |
|          | Level 4  Candidate demonstrates evaluative skills when considering standard cost data and other factors. (9-13)   | )    |                               |
|          | Level 3  Candidate demonstrates analytical skills when considering standard cost data and other factors.  (6-8)   |      |                               |
|          | Level 2 (3-5  Candidate offers knowledge and understanding of standard cost data. No context required.  Level 1 (1-2  Candidate offers only theoretical knowledge of standard cost data.  |      |                               |
| 5        | Discuss reasons why all of ITSL's departments shou be involved in setting financial budgets.  Knowledge Financial budgets: quantitative statements, for a defined period of time, which may include planned revenues, expenses, assets, liabilities and cash flows. Budgets lay down framework in order for the business to achieve its overall financial objective. In practice a range of budgets need to be prepared and t combined into an overall budget or a master budget including  Budgeted profit and loss account Budgeted balance sheet Budgeted cash flow statement. |      |                               |

| Question | Expected Answer  |        | Mark | Rationale/Additional Guidance |
|----------|--|--------|------|-------------------------------|
|          | Analysis of Table 3: Standard costing illustrates the value of budgeting and involving departments. The variance per carton of £0.08 equates to a £400 decrease in gross profit if the whole production run is taken into account. (5,000 x £0.08= £400). Regular meetings with relevant departments to discuss budgets would throw light on variances and possibly lead to improved performance and greater profit margins, eg in this case, the purchasing department (review suppliers of ingredients), product development (review recipes in light of rising costs), production (review wastage level). |        |      |                               |
|          | Level 4  Candidate demonstrates evaluative skills when discussing the implications of involving departments in setting financial budgets.  | (9-13) |      |                               |
|          | Level 3  Candidate demonstrates analytical skills when discussing the implications of involving departments in setting financial budgets.  | (6-8)  |      |                               |
|          | Level 2  Candidate demonstrates knowledge and understanding of setting financial budgets. No context required.   | (3-5)  |      |                               |
|          | Level 1 Candidate offers only theoretical knowledge of setting financial budgets.  | (1-2)  |      |                               |
|          |  |        | [13] |                               |

| Question | Expected Answer  | Mark  | Rationale/Additional Guidance                              |
|----------|--|---|--|
| 6        | accept the contract with JR Stores? Justify your view.   |   | A one sided argument <u>cannot</u> achieve a Level 4 mark. |
|          | accept the contract with JR Stores? Justify your view Total Profit/Contribution Statement derived from Table    £   Calculation  | w. s 0 0 0 0 0 0 0 0 0 0 0 0 s in s in s up |  |
|          | (£6,900) and a net profit margin of £900 or 3.4% (900/26,400) x 100.  Net profit margin is well below the average for the last of 6% (see Table 1 = 131,603/526,720) x 100.  Gross profit margin at 26.1% (6,900/26,400) x 100 is well below the average for the last year of 55% (see Table 289,685/526,720) x 100.  This is a new customer and could lead to larger contract the future.  In a competitive market it guarantees business and use production capacity. The contract equates to 5% of last year's sales revenue {(26,400/526,720) x 100}  What about ITSL's existing customers? How will they religion information about the average price of £0.88 is | s in s up                                   |  |

| Question | Expected Answer  |                               | Mark | Rationale/Additional Guidance  |
|----------|--|-------------------------------|------|--------------------------------|
| question | Stores' own label and so ITSL could be replaced be soup manufacturer.  Although there is no reference to liquidity issues, the extension of credit terms to 60 days will impact on flow. However, there is implied concern, from the about some of ITSL's customers' credit worthiness potential bad debts.  On the other hand, Harry is concerned about increaselevels of competition.                                    | ne<br>cash<br>uditors,<br>and | Mark | Rationale/Additional Editation |
|          | Should Harry seek to re-negotiate terms, eg price a credit and/or stocking the ITSL brand.   | and/or                        |      |                                |
|          | Level 4  |                               |      |                                |
|          | Candidate demonstrates evaluative skills when discussing the implications of the decision. Complex ideas have been expressed clearly and fluently using a style of writing appropriate to the complex subject matter. Sentences and paragraphs, consistently relevant, have been well structured, using appropriate technical terminology. There may be few, if any, errors of spelling, punctuation and grammar.  Level 3 | (13-18)                       |      |                                |
|          | Candidate demonstrates analytical skills when discussing decision in terms of outcomes and resource requirements.  Relatively straightforward ideas have been expressed with some clarity and fluency.  Arguments are generally relevant, though may stray from the point of the question. There will be some errors of spelling, punctuation and grammar, but these are unlikely to be intrusive or obscure meaning.      | (7-12)                        |      |                                |

| Question | Expected Answer   |       | Mark | Rationale/Additional Guidance |
|----------|---|-------|------|-------------------------------|
|          | Level 2  Candidate demonstrates knowledge and understanding of issues. No context required. Some simple ideas have been expressed in an appropriate context. There are likely to be some errors of spelling, punctuation and grammar of which some may be noticeable and intrusive.  Level 1  Candidate offers only theoretical knowledge of issues in decision. Some simple ideas have been expressed. There will be some errors of spelling, punctuation and grammar, which will be noticeable and intrusive. Writing may also lack legibility. | (1-2) | [18] |                               |
|          | Total   |       | [60] |                               |

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

#### **OCR Customer Contact Centre**

### 14 – 19 Qualifications (General)

Telephone: 01223 553998 Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

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