## 2012 Accounting

## Advanced Higher - Solutions

## Finalised Marking Instructions

© Scottish Qualifications Authority 2012
The information in this publication may be reproduced to support SQA qualifications only on a noncommercial basis. If it is to be used for any other purposes written permission must be obtained from SQA's NQ Delivery: Exam Operations.

Where the publication includes materials from sources other than SQA (secondary copyright), this material should only be reproduced for the purposes of examination or assessment. If it needs to be reproduced for any other purpose it is the centre's responsibility to obtain the necessary copyright clearance. SQA's NQ Delivery: Exam Operations may be able to direct you to the secondary sources.

These Marking Instructions have been prepared by Examination Teams for use by SQA Appointed Markers when marking External Course Assessments. This publication must not be reproduced for commercial or trade purposes.

## 2012 ADVANCED HIGHER ACCOUNTING

## MARKING CONVENTIONS

| CONVENTION | EXPLANATION | MARK(S) ON CANDIDATES PAPER |
| :---: | :---: | :---: |
| Extraneous | Items entered which should not be in the answer | -1E |
| Consequential | If a figure in a question is wrong, any further calculations are awarded marks if correct, as a consequence of using that figure | C |
| Nomenclature | The details in an account are wrong/ missing | -1N |
| Dates | The date of an entry is wrong/missing | -1D |
| Complete Reversal | All the ledger entries are made the wrong way round <br> The question is marked as if correct and then the total mark is divided by 2 | R <br> eg Total Mark $=12$ <br> Divided by 2 <br> Mark awarded = 6 |
| Plus/Minus Rule | If an entry is shown correctly it is awarded the mark (+) <br> If the same entry then appears in another part of the question the mark is deducted (-) <br> ie no mark is gained and there is no penalty | eg <br> Correct entry £60,000 Sales in the Trading Account - Mark awarded 1 (+-) <br> Wrong entry $£ 60,000$ Sales also entered in the Balance Sheet - Mark deducted -1 (+-) |
| Penalty | The answers given are more than required ( 4 given instead of 3 ) and one of them is wrong <br> A heading is wrong/missing from a final account <br> The answer is correct but not given in the format requested ie the question asks for an account or a statement and a list is given | -1P |

## GENERAL INSTRUCTIONS

1 Assess pencil figures and working. If the script is predominantly in pencil refer to the Principal Examiner.

2 A maximum of $10 \%$ of marks gained on any individual question may be deducted for untidy work and poor style. This penalty should only be applied in exceptional circumstances.

3 Work which has been deleted gains no marks, even if correct. Exceptional cases may be drawn to the attention of the Principal Examiner.

4 Consequential errors MUST NOT be penalised, subject to the marking instructions for each question.

5 Mark workings whether or not they are incorporated into the final answer. Deduct a penalty of -1 mark per question for working which is not incorporated in the final answer.

6 Incorrect figures, supported by adequate workings - award marks for any correct operations performed.
$7 \quad$ Incorrect figures, not supported by adequate workings - lose awards, unless the marking instructions specify otherwise. If arithmetic error lose 1 mark.

8 EXTRANEOUS ITEMS - see instructions for specific questions.
9 If right and wrong - give value of award where figure is correct, deduct value of award where figure is wrong (cross reference $+/$ - against relevant figures).

Indicate awards given for each item next to the appropriate figure eg $£ 1500^{1}$
In essay type questions indicate the marks awarded beside the point made by the candidate NOT IN THE MARGIN.
Sub-totals for each section should be indicated and encircled, 5/6
Final totals should be clearly indicated and easy to check, eg Q1 $=42 / 50$.

## 2012 Accounting

## Advanced Higher

Solutions

## SECTION A

## Question 1

## Working Notes

## DISTRIBUTION OF EXPENSES

Wages and Salaries
$42,200+1,500=43,700$
Rent and Rates
$15000-5800=9200$
Depreciation Machinery
$25 \%$ of $400000=100000$
Depreciation Delivery Vans
$15 \% \times(125,000-9,000)$

| COGS | Admin | Distrib |  |
| ---: | ---: | ---: | ---: |
| $20 \%$ | $40 \%$ | $40 \%$ |  |
| 8,740 | 17,480 | 17,480 | $\mathbf{1}$ each |
|  |  |  |  |
| $50 \%$ | $20 \%$ | $30 \%$ |  |
| 4,600 | 1,840 | 2,760 | $\mathbf{1}$ each |
|  |  |  |  |
| $70 \%$ |  | $30 \%$ |  |
| 70,000 |  | 30,000 | $\mathbf{1}$ each |

## Part A

(a) (i) Cost of Sales

| Opening Stock | 14,605 |  |
| :--- | ---: | ---: |
| Add Purchases | 217,500 |  |
| Less Closing Stock | 232,105 |  |
|  | 25,500 |  |
|  | 206,605 | $\mathbf{1}$ |
| Wages and Salaries | 8,740 | $\mathbf{1}$ |
| Rent and Rates | 4,600 | $\mathbf{1}$ |
| Depreciation of Machinery | 70,000 | $\mathbf{1}$ |
| Cost of Sales | 289,945 | (4) |

(ii) Distribution Expenses

| Wages and Salaries | 17,480 | $\mathbf{1}$ |
| :--- | ---: | :---: |
| Rent and Rates | 2,760 | $\mathbf{1}$ |
| Sundry Dist Exps | 17,825 | $\mathbf{1}$ |
| Depn Del Vans | 17,400 | $\mathbf{1}$ |
| Depn Mach | 30,000 | $\mathbf{1}$ |
| Vehicle Exps | 4,220 | $\mathbf{1}$ |
| Total | 89,685 | (6) |

(iii) Administration Expenses
$\left.\begin{array}{lrllrl}\text { Wages and Salaries } & 17,480 & \mathbf{1} & \text { Investment Income } & 4,500 & \mathbf{1} \\ \text { Rent and Rates } & 1,840 & \mathbf{1} & \text { Bank Interest } & 2,300 & \mathbf{1} \\ \text { Directors emoluments } & 6,100 \\ \text { Sundry Admin Exps } & 7,980\end{array}\right\}, \mathbf{1} \quad 6,800 \quad$ (2)

## Dividends

Preference Dividend $=10 \%$ of $100,000=10,000 \quad \mathbf{1}$
Ordinary Dividends
Final $=375,000 * 3 p=$

## Investment Income

Investment Income 4,500 1
Bank Interest 2,300 1
6,800 (2)

1
(b) MATTHEWS PLC

Profit and Loss Account for year ended 31 December Year 2

| Turnover | £ | £ | 1 |
| :---: | :---: | :---: | :---: |
|  |  | 525,700 |  |
| Less Cost of Sales |  | 289,945 | 1 |
| Gross Profit |  | 235,755 |  |
| Less Expenses |  |  |  |
| Distribution | 89,685 |  | 1 |
| Administration | 42,900 | 132,585 | 1 |
| Operating profit |  | 103,170 | 1 |
| Investment Income |  | 6,800 | 2 |
|  |  | 109,970 |  |
| Interest payable |  | 10,000 | 1 |
| Profit on ordinary activities |  | 99,970 | 1 |
| Corporation Tax on ordinary activities |  | 45,400 | 1 |
| Profit after tax |  | 54,570 | 1 |
| Dividends |  | 21,250 | 3 |
| Retained Profits |  | 33,320 | (14) |

## MATTHEWS PLC

## Balance Sheet as at 31 December Year 2

£

## Fixed Assets

Tangible Assets
Investments
£

$$
\begin{array}{rr}
373,600 & 2 \\
100,000 & \mathbf{1}
\end{array}
$$

## Current Assets

Stock
Debtors
Bank
Prepayments
$\left.\begin{array}{r}25,500 \\ 10,940 \\ 12,575 \\ 5,800\end{array}\right\} \quad \mathbf{1}$

12,575
54,815

Creditors: amounts falling due within one year
Trade Creditors
Accruals

| 9,330 |
| ---: |
| 11,700 |
| 45,400 |
| 5,000 |
| 71,430 | | $\mathbf{1}$ |
| :--- |

Net Current Assets
Total Assets less Current Liabilities

| $-16,615$ | $\mathbf{1}$ for label |
| ---: | ---: |
| 456,985 | $\mathbf{1}$ for label |

Creditors: amounts falling due after one year
100,000
Net Assets
356,985
Capital and Reserves
Called up capital
287,500
1
Share Premium
30,900
1
Reserves $(5,265+33,320)$
38,585
356,985
(13)

## Working Notes

Tangible Assets

|  | Machinery | Del Vans | Total |  |
| :--- | ---: | ---: | ---: | ---: |
| Cost 1 January Year 2 | 400,000 | 125,000 | 525,000 |  |
| Less Prov for Depn |  |  |  |  |
| 1 Jan Year 2 | 25,000 |  | 9,000 | 34,000 |
| Change for year | 100,000 |  | 17,400 | 117,400 |
|  | 125,000 | 26,400 | 151,400 |  |
| Net Book Value | 275,000 | $\mathbf{1}$ | 98,600 | $\mathbf{1}$ |

## PART B

(a) Earnings per share

Net Profit after Tax - Preference Dividends
Number of Ordinary Shares
$\begin{array}{cc}54,570-10,000 \\ 375,000 & \mathbf{2} \\ \mathbf{1}\end{array} 12 \mathrm{p}$ per share
(3)
(b) Price Earnings Ratio

Market Price per share
Earnings per share

| $\frac{1.2}{0.12}$ | $\mathbf{1}$ |  |
| :--- | :--- | :--- |

(c) Dividend Yield

Ordinary dividend per share $\times 100$
Market Price per share
$\begin{array}{ccc}\frac{0.03 \times 100}{1.2} \quad \mathbf{2} & \\ \mathbf{1}\end{array} 2.50 \%$
(3)

## Question 2

WORKING NOTES


## Calculation of Purchases

Opening Balance
22,600
1
Add Credit Purchases
120,745
Bank
Discount
Closing balance
Credit purchases
Add Cash purchases
Less drawings
400*4/5
$\left.\begin{array}{rl}123,400 \\ 745 \\ 19,200\end{array}\right\} \quad \mathbf{1}$ for both

| 120,745 |
| ---: |
| 3,200 |
| 123,945 |

## CALCULATION OF DEPRECIATION

| calculation Of | Cost | Agg Depn Year 1 | Year 2 |
| :---: | :---: | :---: | :---: |
| Motor Vehicle Jan-Jun | 25,000 | 5,000 | 2,500 |
| MV July-Dec | 17,500 |  | 1,750 |
| Depreciation for Year 2 |  |  | 4,250 |

(a) Trading and Profit and Loss Account of L Smith for year ended 31 December Year 2

|  | £ |  | £ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sales |  |  |  |  | 252,740 | 7 |
| Less Cost of Sales |  |  |  |  |  |  |
| Opening Stock | 32,600 | 1 |  |  |  |  |
| Add Purchases | 123,625 | 6 | 156,225 |  |  |  |
| Less Closing Stock |  |  | 29,500 | 1 | 126,725 |  |
| Gross Profit |  |  |  |  | 126,015 |  |
| Add Discount received |  |  |  |  | 745 |  |
|  |  |  |  |  | 126,760 |  |
| Less Expenses |  |  |  |  |  |  |
| Rates |  |  | 2,400 | 1 |  |  |
| Wages and Salaries (42500-500) |  |  | 42,000 | 1 |  |  |
| Electricity ( $1860+75$ ) |  |  | 1,935 | 1 |  |  |
| Insurance 5500 + 240-300 |  |  | 5,440 | 2 |  |  |
| Repairs to buildings |  |  | 2,900 | 1 |  |  |
| Bad Debts (4300-860) |  |  | 3,440 | 1 |  |  |
| Discount allowed |  |  | 2,300 | 1 |  |  |
| Provision for Bad Debts (5\% x 28000) |  |  | 1,400 | 1 |  |  |
| Provision for depreciation |  |  |  |  |  |  |
| Motor Vehicles |  |  | 4,250 | 2 |  |  |
| Loss on sale of Motor vehicle |  |  | 250 | 3 |  |  |
|  |  |  |  |  | 66,315 |  |
| Net Profit |  |  |  |  | 60,445 |  |

(b) (i) Net Book Value of Motor Vehicles - 31 December Year 2

Cost
Motor Vehicles at cost Year $1 \quad$ 25,000
Less Cost of Vehicle sold Year 2 7,500
Cost of Motor Vehicles
$17,500 \quad 1$
Less Depreciation
Year 1 5,000
Year $2(25,000 \times 20 \% \times 0.5) \quad 2,5001$
Year $2(17,500 \times 20 \% \times 0.5) \quad 1,750 \quad 1$
Less Depreciation on Vehicle sold
Year $1 \quad 7500 \times 20 \%$
Year $2 \quad 7500 \times 20 \%$ * 0.5
$\left.\begin{array}{r}1,500 \\ 750 \\ 2,250\end{array}\right\} \boldsymbol{1}$ for both
$\frac{7,000}{10,500}$
(4)
(ii) Bank Balance

Bank overdraft 22,500 1
Add Receipts
Less Payments
Closing Balance
$\left.\begin{array}{ll}22,500 \\ 264,500 \\ \hline 242,000 \\ 175,660\end{array}\right] \mathbf{1}$ for both
(iii) Closing Capital figure

| Capital at start | 289,240 | $\mathbf{1}$ |
| :--- | ---: | :--- |
| Add Additional Capital | 25,000 | $\mathbf{1}$ |

$\begin{array}{lrrr}\text { Add Net Profit } & 60,445 & 374,685 & \mathbf{1} \\ \text { Less Drawings }(10,400+320) & & 10,720\end{array}$
Less Drawings $(10,400+320) \quad 10,720 \quad 363,965 \quad 1$
(4) (10)
(40 marks)

## Question 3

## PART A

(i) + (ii)

NET CASH INFLOW FROM OPERATING ACTIVITIES
Operating Profit (before interest and
Non Cash Adjustments:
Add Depreciation for year
Add Loss on sale of Equipment
Add Loss on sale of Vehicles
Less Profit on sale of premises

Working Notes
£000s £000s
$80+10+20+25$
$100+30$

$$
\begin{array}{r}
75-40=35-30=5 \\
20-5=15-10 \\
50-100=50
\end{array}
$$

$\qquad$2

265

## Changes in Working Capital

Stock increase

## Debtors decrease

Creditors increase
Net Cash inflow from operating activities
$20 \quad 1$
255 (18)

CASH FLOW STATEMENT FOR YEAR ENDED 30 JUNE YEAR 3
Net Cash inflow from operating activities
Returns on Investments and Servicing of Finance
Debenture Interest paid
Debenture Interest paid

Taxation
$30+25-40$

$$
£ 000 s \quad £ 000 s
$$

2551

| Taxation | $30+25-40$ | $\begin{array}{r} -15 \\ \hline 230 \end{array}$ |  |
| :---: | :---: | :---: | :---: |
| Capital Expenditure and financial investments |  |  |  |
| Buildings | 150 |  | 1 |
| Equipment | 200 |  | 1 |
| Vehicles | 60 | -410 | 1 |
| Sale of Fixed Assets |  |  |  |
| Buildings | 100 |  | 1 |
| Equipment | 30 |  | 1 |
| Vehicles | 10 | 140 | 1 |
| Equity Dividends paid |  | -20 | 1 |
|  |  | -60 | 1 |
| Management of liquid resources and financing |  | 0 |  |
| Decrease in Cash/Bank during year |  | -60 | (13) |

## PART B

(i) + (ii)

| Funds Required: | $\mathbf{£}$ |  |  |
| :--- | ---: | ---: | ---: |
| Factory expansion |  | 500,000 | $\mathbf{1}$ |
| Overdraft to clear | 100,000 | $\mathbf{1}$ |  |
| Bank Balance required | 150,000 | $\mathbf{1}$ |  |
| Total cash required | 750,000 | $\mathbf{1}$ |  |
| Less Debenture | 300,000 | $\mathbf{1}$ |  |
| Raised from share issue | 450,000 |  |  |
|  |  | $\mathbf{£}$ |  |
|  | 0.75 | $\mathbf{1}$ |  |
| Total cost per share $£ 450,000 / 600000$ | 0.50 | $\mathbf{1}$ |  |
| Less nominal value | 0.25 | $\mathbf{2}$ |  |

## Question 4

Businesses use accounting ratios to compare their results of one year against those of another or to compare their results with those of a competitor.
(a) Identify and describe areas of financial performance that a Finance Manager might consider.

The aspects of a financial performance considered by the Finance Manager would be:
Profitability ratios.

- These ratios analyse whether the business has met its objectives.
- Focus on how well a firm is performing.
- They measure the effectiveness of a firm's ability to make profits.
- They analyse the profit margin and indicate any changes in specific performances or expenses from year to year.

Liquidity ratios measure the firm's short term ability to meet its liabilities.
Efficiency ratios

- Give an indication of how well the business enterprise has used it assets and controlled its debts.
- Efficiency ratios will compare average stock, rate of stock turnover, debtors collection period, creditors payment periods and the use of fixed assets.
- Are used to examine how well a business is using its fixed assets and liabilities within the business.

One mark for identifying each area and one mark for description.
(b) Select 2 of these areas of performance and discuss 2 ratios for each that a Finance Manager might calculate and indicate their significance.

## PROFITABLITY RATIOS:

Return on Capital Employed:

- Shows Profit business earns on the capital invested. (2)
- Return on capital influence by
- the pricing policy employed (2)
- efficiency of the day-to-day running of the business (2)
- efficiency with which the assets are being used (2)


## Gross Profit Ratio:

- Shows profits earned from purchasing goods at one price and selling them at a higher price. (2)
- Shows the profit earned on every $£ 100$ of sales. (2)
- Gross profit is related to the price charged for the goods. If the price increases, so will the gross profit. (2)
- Gross profit ratio will be related to the Mark-up the business applies. (2)
- An interesting trend relating to the Gross Profit percentage is that if business trends are steady the Gross Profit Percentage will be constant. (2)
- Reductions in Gross Profit may result from poor purchasing policy, stock losses or theft of cash. (2)


## Mark-up Ratio:

- This is the percentage added to the cost price to calculate the selling price. (2)
- This depends on the pricing policy of the business and any changes in this will affect the gross and net profits. (2)

Net Profit Ratio:

- This is the profit earned by the business after all the expenses have been met. (2)
- Often regarded as the most important single measure of a business's performance. (2)
- Shows the overall efficiency of the business in its day-to-day running. (2)
- An increase in Net Profit percentage could arise because of an increase in mark-up or increases achieved by the business controlling its expenses more efficiently. (2)
- Show the net profit earned for every $£ 100$ of sales made. (2)
- Significant changes in Net Profit percentage may lead to investigations of expenses ratios to identify possible problem areas. (2)


## LIQUIDITY RATIO:

## Current Ratio:

- The current assets of the business should be sufficient to enable the business to carry on trading if all the current liabilities were paid off. (2)
- Compares assets which will become liquid within a year with the liabilities which will be due for payment in the same period. (2)
- Current ratio could be artificially high if too much stock was being held, meaning that the business was not using its money efficiently. (2)
- Different types of businesses will quote different optimum ratios depending whether trade is mostly in cash or credit. (2)


## Acid Test Ratio:

- Shows the ability of the firm to meet it debts from liquid funds. (2)
- Shows the ability of the firm to pay its creditors, taxation, dividends and other current liabilities from cash in hand, at bank, received from debtors and sale of listed investments.
- Liquidity ratio should be generally 1:1. (2)
- Poor liquidity ratio may result from persistent losses or overtrading. (2)


## EFFICIENCY RATIO:

Turnover to Fixed Assets:

- This measures how productive the fixed assets employed in the business are at generating sales income or turnover. It will show how much turnover is generated for every $£ 1$ of fixed asset employed in the business. (2)
- An enterprise will be interested in this ratio, particularly if they have invested in fixed assets, to see if the increase in fixed assets have been worthwhile and generated an increase in turnover. (2)
- This ratio indicates a trend in performance and needs to be considered along with other ratios before effective conclusions can be drawn. (2)


## Expense Ratios:

- These enable an accountant to compare every expense with the same expense from the previous year. (2)
- By converting the actual amount paid to a percentage the expenses can be compared on the same basis. (2)
- The accountant can therefore see whether they have risen abnormally and to take action. (2)
- Useful to calculate these if significant changes in Net Profit is not related to changes in Gross Profit Percentage. (2)


## Rate of Stock turnover:

- The Rate of Stock Turnover figure is very important because it is at the point where the stock turns over that the profits are made. (2)
- The higher the rate of the stock turnover the greater should be the profits of the firm. (2)
- Rate of stock turnover is expressed as a number followed by the word times eg if the rate of stock turnover was 6 times a year this would mean that the stock had been sold every two months. (2)
- Rate of turnover a firm achieves can vary depending on the type of business, a jeweller will have a much lower turnover than a supermarket. (2)


## Debtors Collection Period:

- This measures the time taken by our debtors to pay their debts. (2)
- It can be expressed in days, weeks or months. (2)
- It is an indication of how efficient the business enterprises credit control system is operating. (2)
- Can affect ability to pay creditors. (2)

Creditors Payment Period:

- This is the length of time it takes the enterprise to pay its creditors. (2)
- It can be expressed in days, weeks or months. (2)
- If the period is too long the business runs the risk of having credit refused which could affect their ability to trade. (2)
- Ability to pay creditors may be affected by the Debtors ratio. (2)


## (c) Discuss the limitations of ratio analysis when carrying out an inter-firm comparison.

- Inter-firm comparisons are limited to the information content of the published accounts. (2)
- Comparisons between companies for a time period may be misleading if different accounting policies are used. (2)
- Comparisons are based on historical cost data, not current information and may be distorted by inflation. Eg how fixed assets are valued in each firm. This may influence on the return on capital figures. (2)
- Data needed to calculate some ratios are not disclosed by the published accounts and aggregate figures may have to be used eg aggregate cash and credit sales to calculate debtors collection period. (2)
- Investigations need to be carried out to determine whether the ratio is 'good' or 'bad' eg Gross Profit to Sales percentage may have risen but the actual gross profit may have fallen due to reduction in sales as a result of higher selling price. (2)
- Does not show non-financial matters (2)
- Must be compared with businesses of similar size (1) or nature (1)
- Figures used to calculate ratios may not reflect typical situations eg reduction in stock levels for stocktaking will increase reported rate of stock turnover and reduce reporting working capital figures compared with their 'true' values. (2)
- When comparing different years, there may be a very different economic climate and an apparently poorer return on capital may represent a good performance by management in the circumstances. (2)
- Comparisons with past performance cannot demonstrate whether the performance is actually acceptable - it may simply be better than a poorer previous figure. (2)


## Question 5

Social Accounting is a diverse activity mainly concerned with offering a complementary form of accounting as opposed to the more usual economic and profit orientated accounting.
(a) Describe what is meant by the term Social Audit.

- A social audit is the process carried out by a business which assesses its social, economic, and environmental benefits and limitations. (2)
- Audit of the non-financial objectives of the organisation and the impact they have on the environment. (2)
- Social Audit will involve the stakeholders - employees, clients, volunteers, funders, contractors, suppliers, local residents - those people interested in the organisation. (2)
- Audit carried out regularly for both internal and external groups. (2)
- Audit may impact on the activities of the business. (2)
(b) Outline the social and environmental issues an organisation may wish to report on.

Organisations may wish to report on how they are meeting their objectives:
Human resources development

- Be good employer and manage human resources efficiently. (2)
- Be a valued employer and provide good working environment. (2)
- Be fair and progressive and encourage learning and understanding. (2)
- Empower employees. (2)

Environmental impact

- Pollution. (2)
- Waste disposal and the hidden costs involved. (2)
- Sustainability. (2)
- Adopt environmentally friendly practices. (2)
- Operate good working practices in running the business. (2)
- Minimise their negative impact on the environment. (2)
- Reducing energy consumptions and carbon footprint. (2)

Fair trade activities

- Adopt fair trade practices. (2)
- Treat customers and suppliers fairly. (2)

Economic development by:

- providing local environment opportunities (2)
- giving start-up help (2)
- providing premises for small businesses (2)
- providing training and learning opportunities. (2)


## Community Support

- Providing services to local community groups and association. (2)
- Support and benefit local community activities. (2)
- Financial assistance to local groups. (2)


## Local Economy

- Support and stimulate the local economy. (2)
- Employing locals. (2)
- Purchasing goods and services locally. (2)


## Community Regeneration

- Working in partnership with other organisations/agencies. (2)
- Working in partnership with other service providers. (2)
- Setting up joint ventures. (2)

Inclusion

- Promote the inclusion of disadvantage groups. (2)
- Taking account of cultural and language differences. (2)

Volunteering

- Providing a wide range of student placement opportunities. (2)
- Promote/encourage volunteering. (2)

Image

- Promote a positive image of their premises. (2)
- Emphasise local achievements. (2)
- Generate positive media coverage. (2)
(c) Describe the benefits to an organisation of adopting a Social Accounting Policy.
- Gives the organisation a method of obtaining a holistic and regular process of examining how it is performing and what its effects are on people, communities and the environment. (2)
- Stakeholders can be involved in the social accounting process and feed their perspectives into the organisation's planning. (2)
- Stakeholders can read/request special accounts to know more about the organisation and therefore use them as opposed to another business organisation. (2)
- Can help feed into strategic planning offering organisation opportunity to review its strengths and areas for improvement. (2)
- Organisation can choose which aspects to report on and show where they are making progress. This may affect prospective customer's decisions. (2)
- Having a verified and comprehensive statement of the organisation's impact and performance can help reporting to investors/stakeholders and in preparing annual reports. (2)


## SECTION B

## Question 6

## PART A

Workings:

| 33.0 | 35.0 | 37.0 | 39.0 | 41.0 | 43.0 |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 5.0 | 7.0 | 8.5 | 9.5 | 10.5 | 12.0 |
| 17.0 | 21.0 | 18.0 | 20.0 | 19.0 | 23.0 |
| 55.0 | 63.0 | 63.5 | 68.5 | 70.5 | 78.0 |
| 55000 | 63000 | 63500 | 68500 | 70500 | 28000 |

(a)


## PART B

| Sales of Product M (in units) |  | Price |
| :--- | ---: | ---: |
|  |  |  |
| January | 6,000 | $£ 12$ |
| February | 7,200 | $£ 12$ |
| March | 8,600 | $£ 10$ |
| April | 9,500 | $£ 10$ |
| May | 8,000 | $£ 10$ |
|  |  |  |
| Materials | 2 kg per unit |  |
| Price | $£ 3.40$ per kg |  |

## Budgets for Year 3:

(a)

January February March
April

## SALES BUDGET

| Unit Sales |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Cash | 3,000 | 3,600 | 4,300 |  |
| Credit | 3,000 | 3,600 | 4,300 |  |
| Total Sales Units | $\mathbf{6 , 0 0 0}$ | $\mathbf{7 , 2 0 0}$ | $\mathbf{8 , 6 0 0}$ | $\mathbf{1}$ |

## Sales Value

| Cash | $£ 34,200$ | $\mathbf{1}$ | $£ 41,040$ | $\mathbf{1}$ | $£ 40,850$ | $\mathbf{1}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Credit | $£ 36,000$ | $\mathbf{1}$ | $£ 43,200$ | $\mathbf{1}$ | $£ 43,000$ | $\mathbf{1}$ |
| Total Sales Value | $£ 70,200$ |  | $£ 84,240$ |  | $£ 83,850$ |  |

(b)

PRODUCTION BUDGET (UNITS)

| Current Month's | 6,000 |  | 7,200 |  | 8,600 |  | 9,500 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sales |  |  |  |  |  |  |  |
| Next Month's Sales | 7,200 |  | 8,600 |  | 9,500 |  | 8,000 |
| Production |  |  |  |  |  |  |  |
| 40\% of Current | 2,400 | 1 | 2,880 | 1 | 3,440 | 1 | 3,600 |
| Month |  |  |  |  |  |  |  |
| 60\% of Next Month | 4,320 | 1 | 5,160 | 1 | 5,700 | 1 | 4,800 |
| Total Production | 6,720 |  | 8,040 |  | 9,140 |  | 8,600 |
| ALTERNATIVE |  |  |  |  |  |  |  |
| Sales | 6,000 |  | 7,200 |  | 8,600 |  |  |
| Stock at end | 4,320 | 1 | 5,160 | 1 | 5,700 | 1 |  |
|  | 10,320 |  | 12,360 |  | 14,300 |  |  |
| Less Stock at start | 3,600 | 1 | 4,320 | 1 | 5,160 | 1 |  |
| PRODUCTION | 6,720 |  | 8,040 |  | 9,140 |  |  |

(c)

## MATERIALS PURCHASES BUDGET (KG AND VALUE)

| Next Month's Production | 8,040 |  | 9,140 |  | 8,600 | $\mathbf{1}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | :--- |
| Material (kg) | $\mathbf{1 6 , 0 8 0}$ | $\mathbf{1}$ | $\mathbf{1 8 , 2 8 0}$ | $\mathbf{1}$ | $\mathbf{1 7 , 2 0 0}$ | $\mathbf{1}$ |
| Total Cost | $£ 54,672$ |  | $£ 62,152$ |  | $£ 58,480$ | $\mathbf{1}$ for line |

## Question 7

## PART A

(a) (i) Process 3 Equivalent Production Statement - May Year 4

| Inputs | Units ( Kg ) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Work in Progress | 2000 |  |  |  |  |  |
| Materials | 30000 |  |  |  |  |  |
|  | 32000 |  |  |  |  |  |
|  |  | Materials |  | Labour |  | Overheads |
| Outputs |  |  |  |  |  |  |
| Normal Losses | 16001 |  |  |  |  |  |
| Finished Goods | 27400 | 27400 |  | 27400 |  | 27400 |
| Work In Progress | $3000$ | 3000 | 1 | 1800 | 2 | 1500 |
| Equivalent Units | Produced | 30400 |  | 29200 |  | 28900 |

(ii) Process 3 Production Cost Statement - May Year 4

|  | Materials £ |  | Labour £ |  | Overheads £ |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Transferred In Costs | 2460 |  | 848 |  | 515 | 1 | line |  |
| Incurred during Month | 47700 | 2 | 12000 |  | 9600 | 1 |  |  |
| Total Cost for Month | 50160 |  | 12848 |  | 10115 |  |  |  |
| Equivalent Units Produced | 30400 | 1 | 29200 | 1 | 28900 | 1 |  |  |
| Cost per Equivalent Unit | £1.65 |  | £0.44 |  | £0.35 |  |  | £2.44 |

(b) Process 3 Account - May Year 4

Inputs

## Outputs

$\mathbf{K g} \underset{\mathrm{Kg}}{\mathrm{EPer}} \mathbf{£}$

Work in Progress 20003823
$\begin{array}{llll}\text { Material A } & 9000 & 1.00 & 9000\end{array}$
$\begin{array}{lllll}\text { Material A } & 11000 & 1.70 & 18700\end{array}$
Material B
$10000 \quad 2.00 \quad 20000$
Labour
Overheads

12000 9600
$\mathrm{Kg} \quad \begin{gathered}\mathrm{EPer} \\ \mathrm{Kg}\end{gathered}$
Normal Loss 16001
$\begin{array}{llllll}\text { Finished Goods } & 27400 & 1 & 2.44 & \mathbf{1} & 66,856.00\end{array}$
Work in Progress 3000 6,267.00 2
1
)
£73,123

| Process 3 Equivalent Production Statement - May Year 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Inputs Units ( Kg ) |  |  |  |  |
| Work in Progress 2000 |  |  |  |  |
| $\begin{array}{ll}\text { Materials } & 30000 \\ & 32000\end{array}$ |  |  |  |  |
|  | Materials | Labour | Overheads |  |
| Outputs |  |  |  |  |
| Normal Losses 1600 |  |  |  |  |
| Abnormal Losses 1600 | 1600 | 1600 | 1600 |  |
| Finished Goods 25800 | 25800 | 25800 | 25800 |  |
| Work in Progress $\begin{array}{r}3000 \\ \\ 32000\end{array}$ | 3000 | 1800 | 1500 |  |
| Equivalent Units Produced | 30400 | 29200 | 28900 |  |
| Process 3 Production Cost Statement - May Year 4 |  |  |  |  |
|  | Materials <br> £ | Labour $\Sigma$ | Overheads £ | Total |
| Transferred In Costs | 2460 | 848 | 515 |  |
| Incurred during Month | 47700 | 12000 | 9600 |  |
| Total Cost for Month | 50160 | 12848 | 10115 |  |
| Equivalent Units Produced | 30400 | 29200 | 28900 |  |
| Cost per Equivalent Unit | £1.65 | £0.44 | £0.35 | £2.44 |

(c) Process 3 Account - May Year 4

Inputs

Work in Progress 2000
Material A 9000
Material A 11000
Material B 10000 Labour
Overheads
$\mathrm{Kg} \underset{\mathrm{Kg}}{\mathrm{KPer}} \mathrm{E}$
Outputs
1.00
1.70
2.00 $\quad\left\{\begin{array}{r}3,823.00 \\ 9,000.00 \\ 18,700.00 \\ 20,000.00 \\ 12,000.00 \\ 9,600.00\end{array}\right.$

Kg
Normal Loss 1600
Abnormas Finished Goods 25800 Work in Progress 3000

## £ Per

Kg
$\left.\begin{array}{ll}1 & 2.44 \\ 2.44\end{array}\right\} 2 \begin{array}{r}3,904.00\end{array}$
62,952.00
6,267.00 1
£73,123.00

## PART B

(a) (i) Note shaded areas for working only - not required in answer

| Joint Costs |  | £45,000 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Product | Units | Selling Price per Unit | Cost per Unit |  | Profit per Unit |  | Total Profit |
| S | 3000 | 20 | £10.00 | 2 | £10.00 | 1 | 3000 |
| T | 1500 | 35 | £10.00 | 2 | £25.00 | 1 | 37500 |
|  | 4500 |  |  |  |  |  | 67500 |

(ii)

| Product | UnitsSales <br> Value | Cost per £ <br> of Sales <br> Value | Apportioned <br> Costs | Cost per <br> Unit | Profit per <br> Unit | Total <br> Profit |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |


(b)

| Product | Units | Selling Price <br> per Unit | Cost per <br> Unit | Profit per Unit | Total Profit |
| :--- | :--- | :--- | :--- | :--- | ---: | ---: |
|  |  |  |  |  |  |
| S | 4000 | 20 | 10.5 | 9.5 | 38000 |
| T | 2000 | 35 | 10.5 | 24.5 | 49000 |
|  | 6000 |  |  |  | 87000 |


| Product | Units | Sales Value | Cost per £ of Sales Value | Apportioned Costs |  | Cost per Unit |  | Profit per Unit | Total Profit |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | 4000 | 80000 | $0.42\}$ | 33600 | 1 | £8.40 | 1 | £11.60 1 | 46400 |  |
| T | 2000 | 70000 | 0.42\} | 29400 | 1 | £14.70 | 1 | £20.30 1 | 40600 |  |
|  | 6000 | 150000 |  |  |  |  |  |  | 87000 | (6) |

## Question 8

Workings:

## Sales

Opening Stock
Production
Closing Stock
Sales in Units
Sales in Cartons
Sales Value
At £175 per carton
At £150 per carton

January
2,000 28,000 2,500 27,500
1,100 1
175,000
15,000 1 £190,000

## Variable Costs

Direct Materials
Direct Labour
Variable Overhead
56,000
28,000
28,000

48,000
64,000
£112,000

Absorbed
Actual
Over/Under(-) Absorbed

## Unit Costs:

Materials
£2
Labour
£1
Overhead
£33,600

$$
£ 38,400
$$

£30,000
£3,600

$$
\begin{aligned}
& £ 28,800 \\
& £ 29,000
\end{aligned}
$$

- £200
£33,000
£5,400


## Fixed Costs per Unit

£1.20
(a) Marginal Costing Profit Statements

|  | January <br> Sales | February <br> $£ 190,000$ | March <br> $£ 209,800$ | $\mathbf{9}$ | (8 from working) <br> (1 for entry) |
| :--- | ---: | ---: | ---: | ---: | :--- |
| Less |  |  |  |  |  |
| Opening Stock | $£ 8,000$ | $£ 10,000$ | $£ 11,200$ | $\mathbf{1}$ |  |
| Add Variable Costs | $£ 112,000$ | $£ 96,000$ | $£ 128,000$ | $\mathbf{3}$ |  |
| Less Closing Stocks | $£ 10,000$ | $£ 11,200$ | $£ 16,000$ | $\mathbf{3}$ |  |
|  | $£ 110,000$ | $£ 94,800$ | $£ 123,200$ |  |  |
|  |  |  |  |  |  |
| Contribution | $£ 80,000$ | $£ 71,100$ | $£ 86,600$ | $\mathbf{2}$ |  |
| Less Fixed Costs | $£ 30,000$ | $£ 29,000$ | $£ 33,000$ | $\mathbf{3}$ |  |
| Profit | $£ 50,000$ | $£ 42,100$ | $£ 53,600$ | (21) |  |

(b) Absorption Costing Profit Statements

|  | January <br> $£ 190,000$ | February <br> $£ 165,900$ | March <br> $£ 209,800$ | $\mathbf{1}$ for line |  |
| :--- | ---: | ---: | ---: | ---: | :--- |
| Sales |  |  |  |  |  |
| Less | $£ 10,400$ | $£ 13,000$ | $£ 14,560$ | $\mathbf{3}$ |  |
| Opening Stock | $£ 112,000$ | $£ 96,000$ | $£ 128,000$ | $\mathbf{3}$ |  |
| Add Variable Costs |  |  |  |  |  |
| Add Fixed Overhead | $£ 33,600$ | $£ 28,800$ | $£ 38,400$ | $\mathbf{3}$ |  |
| Absorbed | $£ 14,560$ | $£ 20,800$ | $\mathbf{3}$ |  |  |
| Less Closing Stocks | $£ 13,000$ | $£ 123,240$ | $£ 160,160$ |  |  |
|  | $£ 143,000$ | $£ 42,660$ | $£ 49,640$ |  |  |
|  | $£ 47,000$ |  |  |  |  |
|  |  |  |  |  |  |
| Over/Under(-) Absorbed | $£ 3,600$ | $-£ 200$ | $£ 5,400$ | $\mathbf{6}$ |  |
| Fixed Overhead | $£ 50,600$ | $£ 42,460$ | $£ 55,040$ | $\mathbf{( 1 9 )}$ | (40 marks) |
| Profit |  |  |  |  |  |

## Question 9

(a) A limiting factor exists if there is a shortage of any resource needed for production (2) or sale of a given product or range of products.
Managers then have to make decisions relating to the best use of such resources, (2) restricting (or possibly ceasing) the production of some products in favour of others, (2) in order to maximise profits. (2)
Examples of limiting factors include shortages of:
machine-hours
labour-hours
materials
skilled labour
working capital
storage space
1 mark each for examples - max 2 marks
(b) Calculate the contribution earned per unit of each product (2). From this calculate the contribution earned per unit of the scarce resource for each for each product, (2) eg contribution per machine hour/labour hour/kg of materials used.
Prioritise production favouring the product which gives the highest contribution from the (2) scarce resource.
This will maximise the total contribution and profit earned by the firm.
Max 6
(c) The market for some products may depend upon the market for other related products, (2) so restricting the output of a low contribution earner may result in falling sales of a high earner. (2)
The shortage of a scarce resource may be temporary making it unnecessary to alter the production mix. (2)
If a shortage is long-term, a maximum amount of a low earner may be produced due to contractual obligations,
social obligations,
or the desire to maintain a position in the market. (2-once)
Max 4
(d) If there is a spare production capacity there will normally be the desire to produce components within the business provided that the marginal cost of production is lower than the cost of purchase. (2)
However, alternative uses of spare capacity may be considered and any contribution earned used to offset relatively high costs of purchase. (2)
If there is no spare capacity then existing production will have to be foregone to allow the production of components, (2)
so any contribution lost due to reduced production would be added to the cost of the component before comparison with cost of purchase. (2)
Where firms have the opportunity to produce a range of components managers will consider cost/contributions on all of them before deciding which to make and which to buy. (2)
A minimum quantity of some vital components may be produced 'in-house' even if they reduce the overall profitability of the firm, in order to guarantee availability. (2) Max 8
(e) Disadvantages will relate to:
loss of expertise in production (2)
unreliability of suppliers (2)
vulnerability to interruptions in supply (2)
possible inability to respond to increased demand. (2)
Lack of storage space Max 4

## Question 10

(a) The Budgeted Cost is the cost expected in a given time period for a planned level of output (2), whereas the Standard Cost is the cost expected for the actual level of output achieved. (2)

- OR -

For example if production is planned to be 1,000 units per month and each unit is expected to cost $£ 1$ : Budgeted Cost - $£ 10,000$. (2) If, however, 1,100 units are produced in the month: Standard Cost $-£ 11,000$. (2)
(b) Variance formulae as given in AH Arrangements Document, Management Accounting, appendix 2.
(i) Sales Price
(ii) Sales Volume
(iii) Material Price
(iv) Material Usage
(v) Labour Rate
(vi) Labour Efficiency
(vii) Fixed Overhead Volume

| (viii) | Fixed Overhead Expenditure | $\begin{array}{l}\text { Absorption Rate) } \\ \\ \\ \\ \\ \text { Budgeted Fixed Overheads - Actual Fixed } \\ \text { Overhead Cost }\end{array}$ |
| :--- | :--- | :--- |
| 1 |  |  |


| (viii) Fixed Overhead Expenditure | $\begin{array}{l}\text { Budgeted Fixed Overheads - Actual Fixed } \\ \\ \text { Overhead Cost }\end{array}$ |
| :--- | :--- |
| 1 |  |

$\begin{array}{ll}\text { (viii) Fixed Overhead Expenditure } & \begin{array}{l}\text { Budgeted Fixed Overheads - Actual Fixed } \\ \\ \text { Overhead Cost }\end{array} \\ \mathbf{1}\end{array}$
(c) (i) Reduction in price due to quantity discount. 1
(ii) Change in quantity sold due to response to advertising or fall in demand due to competition.

1
(iii) Purchase of materials of a different quality/price to those budgeted due to shortage.
(iv) Use of poor materials, theft, etc. 2
(v) Change in wage rates due to industrial action. 2
(vi) Use of a different grade of worker due to absenteeism - poorer/better $\quad 2$
(vii) Efficiency of workforce 2
(viii) Increase in costs from suppliers 2

1

> Price) x Actual Quantity
(Actual Selling Price - Budgeted Selling

Budgeted Selling Price 1
(Standard Price - Actual Price for Unit) x
Actual Quantity used
1
(Standard Quantity for production - Actual
Quantity used) x Standard Price
1
(Standard Rate - Actual Rate) x Actual Hours worked
(Standard Hours for Production - Actual Hours worked) x Standard Rate
Budgeted Fixed Overheads - (Standard
Hours for production x Fixed Overhead Absorption Rate)
(d) Variance analysis is only effective if adverse variances can be eliminated by action of staff.

If costs are controllable action can be taken within the firm to reduce excessive
spending. (2)
It is necessary to determine why performance was below standard, allocate responsibility and take remedial action. (2)

No action within the firm can directly reduce non-controllable costs. (2)
Adverse variances in respect of non-controllable costs must be remedied by appropriate alterations to the standards. (2)
If standards are not altered adverse variances will be inevitable. (2)
This could have an adverse effect on staff who are not able to take action. (2) Max 6

