

**INFORMATION AND COMMUNICATIONS TECHNOLOGY
PRACTICAL ASSESSMENT A2002**

**STANDARD LEVEL
BUSINESS CHARTS**

5196/A

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

Make sure that your name, centre number and candidate number are shown on each printout that you are asked to produce.

Carry out **every** instruction in **each** task.

Tasks are numbered on the left-hand side of the page, so that you can see what to do, step by step. On the right-hand side of the page for each task, you will find a box which you can tick (✓) when you have completed the task; this check list will help you to track your progress through the assignment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assignment put **all** your printouts into the Assessment Record Folder.



UNIVERSITY *of* CAMBRIDGE
Local Examinations Syndicate

This question paper consists of 3 printed pages.

You need to produce some charts for *Rootrainer Trees* which analyse the results of some survival tests on 1 year old trees in three types of soil.

BAR CHART

- | | | | |
|---|--|-------------------------------|----------------|
| 1 | Using a suitable software package, import the data from the file TESTS.CSV | ✓
<input type="checkbox"/> | 1.1.1 |
| 2 | Create a comparative bar chart from this data comparing the survival rates for <i>Acid</i> , <i>Neutral</i> and <i>Alkali</i> , using data where the Acid data is greater than 75%. | <input type="checkbox"/> | 2.1.1
2.1.2 |
| 3 | The category axis should show the <i>Species</i> of tree and the value axis should show the percentage. Label the axes Species and Percentage . Add the title Acid Tolerant Species . | <input type="checkbox"/> | 2.1.3 |
| 4 | Make sure that a legend is shown for the chart identifying the soil types. | <input type="checkbox"/> | 2.1.3 |
| 5 | Choose shading patterns which will show the bars clearly on a black and white printer. Put your name and today's date on the chart. | <input type="checkbox"/> | 2.1.4 |
| 6 | Save and print the chart. | <input type="checkbox"/> | 2.1.5 |

PIE CHART

- | | | | |
|----|--|--------------------------|-------|
| 7 | From all the data in the table, extract only the <i>Species</i> and <i>Alkali</i> data. | <input type="checkbox"/> | 2.2.1 |
| 8 | Plot a pie chart for this data. | <input type="checkbox"/> | 2.2.2 |
| 9 | Add the title Alkali Tolerant Species | <input type="checkbox"/> | 2.2.3 |
| 10 | Label each slice of the chart with the Species name. Do not use a legend. | <input type="checkbox"/> | 2.2.3 |
| 11 | Pull out the slice which represents the species <i>Field Maple</i> so that it stands out. Put your name and today's date on the chart. | <input type="checkbox"/> | 2.2.4 |
| 12 | Save and print the chart. | <input type="checkbox"/> | 2.2.5 |

LINE GRAPH

- | | | | |
|----|---|--------------------------|----------------|
| 13 | From all the data in the table, extract only the <i>Species</i> name and the <i>Acid</i> percentages and plot a line graph. | <input type="checkbox"/> | 2.3.1
2.3.2 |
| 14 | The chart should show <i>Species</i> on the category axis and <i>% Survived</i> on the value axis. | <input type="checkbox"/> | 2.3.3 |

- 15 Add a new column to the table and include the data shown below:



2.3.4

<i>Species</i>	<i>Average Growth</i>
Alder	26
Ash	12
Beech	16
Field Maple	17
Horse Chestnut	28
Lime	14
Oak	15
Silver Birch	24
Sweet Chestnut	17
Sycamore	25
Walnut	12
Willow	20
Yew	6

Add a second series which shows the average growth rate of each species.

- 16 Add a second value axis for this data.



2.3.6

- 17 Adjust the minimum and maximum values for the second series so that they range from 0 to 40 centimetres. Put your name and today's date on the graph.



2.3.5

- 18 Save and print the graph.



2.3.7

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You are working for the marketing section of Hothouse Design. The company's Athens branch needs some charts which show data on the performance of the sales team over the last year.

BAR CHART

✓

- 1 Using a suitable software package, import the data from the file **SALES1.CSV**. The data shows the sales team and their results for the last year. 1.1.1
- 2 Create a comparative bar chart from this data. The chart should compare each quarter for all sales people, where QUARTER 3 data is greater than 90000. The category axis should show the sales person, the value axis should show the sales performance numbers. Label the axes **Name** and **Performance**. Add the title **QUARTER 3 SALES**. 2.1.1
2.1.2
2.1.3
- 3 Make sure that a legend is shown for the chart. Choose shading patterns which will show the bars clearly on a black and white printer. 2.1.4
- 4 Save and print the chart. 2.1.5

LINE GRAPH

- 5 Using the same table, extract only *QUARTER 1* data for all sales persons and plot a line graph. The graph should show **Salesperson** on the category axis and **Sales** on the value axis. 2.3.1
- 6 Adjust the value axis to display a minimum of 60000 and a maximum of 200000. Label the axes and add the title **QUARTER 1**. 2.3.2
2.3.3
2.3.5
- 7 Add a second series which shows the average of each sales person over the year. Add a second value axis for this data. 1.2.1
2.3.4
2.3.6

Average over the year
104500
162000
95250
77000
121500
75500
85500

- 8 Make sure that each series has suitable markers and add a legend to identify the two series. 2.3.3
- 9 Save and print the graph. 2.3.7

PIE CHART

- 10 Using the data in the table, select only *SALESPERSON* and the *QUARTER 2* data where the *QUARTER 2* is greater than 100000. 2.2.1
- 11 Plot a pie chart for this data. 2.2.2

- | | | | |
|----|---|--------------------------|-------|
| | | ✓ | |
| 12 | Label each slice of the chart with the percentage. Add a legend to indicate the names of sales staff. | <input type="checkbox"/> | 2.2.3 |
| 13 | Emphasise the slice which represents <i>J Brown</i> so that it stands out, by pulling it out. | <input type="checkbox"/> | 2.2.4 |
| 14 | Adjust the size of the chart so that the data and labels are clear. | <input type="checkbox"/> | 2.2.2 |
| 15 | Add the title QUARTER 2 SALES | <input type="checkbox"/> | 2.2.3 |
| 16 | Save and print the chart. | <input type="checkbox"/> | 2.2.5 |

**INFORMATION AND COMMUNICATIONS TECHNOLOGY
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**STANDARD LEVEL
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5196/C

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You work for an international company called *Hothouse Design*, which has a new project for a customer called *Mobile Solutions*. The project concerns designing and promoting a range of new mobile phone packages.

You are going to produce some charts showing sales information.

LINE GRAPH

- 1 Using a suitable software package import the file **MODEL.CSV** 1.1.1
- 2 Select the data from *Months* and *Number of Sales*. Create a line graph showing the number of sales for each of the twelve months. The category axis should show the months and the value axis should show the number of sales. 2.3.1
2.3.2
- 3 Label the category axis **Months** and the value axis **Number of Sales Income** 2.3.3
- 4 Add the title **Number of Sales** to the graph. 2.3.3
- 5 Add a new column to the table with the data shown below. 1.2.1
2.3.4

Profit or Loss
-\$50,000.00
-\$25,000.00
\$25,000.00
\$50,000.00
\$100,000.00
\$150,000.00
\$200,000.00
\$50,000.00
\$200,000.00
\$250,000.00
\$300,000.00
\$350,000.00

- 6 Add a second value axis to the line graph using this data. 2.3.6
- 7 Change the label of the line graph to read **Number of Sales and Profit or Loss** 2.3.3
- 8 Adjust the minimum value for the *Profit or Loss* scale so that it starts at minus \$50,000. 2.3.5
- 9 Put your name and today's date on the graph. Save and print the graph. 2.3.7

BAR CHART

- ✓
- 10 Select the data from *Sales Income* and *Profit*. Create a bar chart showing the Sales Income and Profit for each of the twelve months. Make use of a stacked column format. For each month the bar should show both the Sales Income and Profit on one bar. 2.1.1
2.1.2
- The category axis should show the months and the value axis should show sales income and profit.
- 11 Label the category axis **Months** and the value axis **Sales Income and Profit** 2.1.3
- 12 Add a legend showing which portion of the bars represent sales income and which portion of the bars represent profit. 2.1.4
- 13 Choose suitable shading patterns for the bars. 2.1.5
- 14 Add the title **Sales Income and Profit** to the chart 2.1.3
- 15 Put your name and today's date on the graph. Save and print the chart. 2.1.5

PIE CHART

- 16 Select the data from *Months* and *Number of Sales*. Create a pie chart showing the number of sales for each of the last six months only, May to October. 2.2.1
2.2.2
- 17 Label each sector of the pie chart with the appropriate month name. 2.2.3
- 18 Add the title **Half Year Sales** to the chart. 2.2.3
- 19 Emphasise the *October* segment of the pie chart to indicate that this month has the most sales. 2.2.4
- 20 Put your name and today's date on the graph. Save and print the graph. 2.2.5