

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

INFORMATION TECHNOLOGY

0418/03

Paper 3 Practical Test

May/June 2006

2 hours 45 minutes

Additional Materials: Candidate Source Files

READ THESE INSTRUCTIONS FIRST

Make sure that your **Centre number**, **candidate number** and **name** are clearly visible on each printout, before it is sent to the printer.

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 checklist will help you track your progress through the assignment.

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

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

This document consists of **10** printed pages.



DATA ANALYSIS

You work for a gym equipment company called *Gymnastic*. Your manager has asked you to calculate the current stock position for stock items.

All currency values should be in dollars with the \$ sign visible.

1 Create a data model which looks like this:



12.1.1

Information Table	
Mark-up	0.05
	0.07
Number of stock items	
Small	
Large	

Date	Item	Size	Purchase	Increase	Sale
24/03/2006	Basic exercise bike				
30/03/2006	Cross trainer				
06/04/2006	Multi gym				
15/04/2006	Treadmill				
19/05/2006	Rowing machine				
20/05/2006	Trampoline				
26/05/2006	Benches				
02/06/2006	Punch bags				
02/06/2006	Weights				
07/06/2006	Elliptical cross trainers				
17/06/2006	Step trainer				
22/06/2006	Press				

The cells in these columns will represent:

<i>Date</i>	Date of item in stock (shown above in dd/mm/yyyy format, you may use mm/dd/yyyy if you prefer)
<i>Item</i>	The type of gym equipment
<i>Size</i>	Whether a large item or a small item
<i>Purchase</i>	The price paid for each item
<i>Increase</i>	The value added to each item based on the Purchase price. If the Purchase price is greater than or equal to 300, then the increase is 7%. Otherwise the increase is 5%.
<i>Sale</i>	The price each item is sold at including the Increase

Information Table

Mark-up

Number of stock items

The percentage increase added to all items

Count of the number of items.

- 2 In the *Information Table* name the cell that holds the data 0.05 **five**
Name the cell that holds the data 0.07 **seven** 12.1.5
- These named cells will be used to calculate the *Increase*
- 3 In the main table in the cell under *Increase*, enter a formula using IF. This
formula calculates the mark-up on the first item. 12.1.4
- If the *Purchase* is greater than or equal to **300** then multiply the *Purchase*
by the named cell **seven** to calculate the *Increase*
- If the *Purchase* is less than **300** then multiply the *Purchase* by the named
cell **five** to calculate the *Increase*
- 4 In the main table in the cell under *Sale* enter a formula which adds the
Increase to the *Purchase* 12.1.3
- 5 In the *Information Table* format the cells containing the data 0.05 and
0.07 to display the % value with 0 decimal places (for example 5%). 14.1.1
- 6 In the *Information Table* use COUNTIF to count the number of items
where the *Size* is **Small**. Place the result in the cell to the right of the
heading *Small*. 12.1.4
- In the *Information Table* use COUNTIF to count the number of items
where the *Size* is **Large**. Place the result in the cell to the right of the
heading *Large*.
- 7 Format the cells in the *Date* column to give the month in word format, (for
example: May 19, 2006 or 19 May 2006). 14.1.1
- 8 Format the cells in the *Purchase*, *Increase*, and *Sale* columns to display
the \$ sign (dollar) with 2 decimal places. 14.1.1
- 9 Copy down all formulae entered in steps 3 and 4 so that 12 rows of data
can be entered. 12.1.1
- 10 Set your page orientation to landscape. 14.3.1
- 11 Save the data model and print a copy of the sheet showing the formulae
used. Make sure that the contents of all cells are visible and that the
printout fits onto a single printed page. 15.1.1
14.2.1

- 12 Enter the following data into the model to test that it works correctly: ✓
12.1.2
12.2.1

<i>Date</i>	<i>Item</i>	<i>Size</i>	<i>Purchase</i>
<i>March 24, 2006</i>	<i>Basic exercise bike</i>	Small	94
<i>March 30, 2006</i>	<i>Cross trainer</i>	Large	295
<i>April 6, 2006</i>	<i>Multi gym</i>	Large	449
<i>April 15, 2006</i>	<i>Treadmill</i>	Large	839
<i>May 19, 2006</i>	<i>Rowing machine</i>	Small	519
<i>May 20, 2006</i>	<i>Trampoline</i>	Large	349
<i>May 26, 2006</i>	<i>Benches</i>	Small	139
<i>June 2, 2006</i>	<i>Punch bags</i>	Small	258
<i>June 2, 2006</i>	<i>Weights</i>	Small	79
<i>June 7, 2006</i>	<i>Elliptical cross trainers</i>	Large	444
<i>June 17, 2006</i>	<i>Step trainer</i>	Small	45
<i>June 22, 2006</i>	<i>Press</i>	Small	88

- 13 Save this data and print a copy showing the values. Make sure that the contents of all cells are visible and that the printout fits onto a single printed page. 15.1.1
14.2.1
- 14 Produce a printout showing only the rows where the *Size* is *Large* 13.1.1
15.1.1
- 15 Produce a printout from all the data showing only the rows where the *Date* is after 1 June 2006 and the *Purchase* is greater than 150 13.1.1
15.1.1

WEBSITE AUTHORIZING

Your manager has asked you to prepare web pages for a gym equipment company called *Gymnastic*. These pages will give information about the company's products.

- 1 Download the following files from **16.1.1**
<http://www.hothouse-design.co.uk/2006webb> to your own work area: **16.2.1**
- SWAD6INT.HTM**
SWAD6GYM.HTM
SWAD6MEN.HTM
SWAD6GYM.JPG
SWAD6ICO.JPG
SWAD6ROW.JPG
- 2 Using a suitable software package, prepare the following styles for use **17.1.1**
 within all pages on this website: **17.1.2**
17.1.3
- h1 – dark green, sans-serif font (e.g. Arial), largest (e.g. 45 point), bold, centered
 - h2 – light green, serif (e.g. Times New Roman), bold, smaller (e.g. 18 point), left aligned
 - h3 – light green, sans-serif (e.g. Arial), smallest (e.g. 14 point), left aligned
- Save the stylesheet and attach it to each web page as you create it.
- 3 Make sure that the stylesheet will work in any browser. **21.1.1**
- Print a copy of the stylesheet that has to be attached to each page as html source code.
- Make sure that your name is printed on this page.
- 4 Using a suitable software package, create a new homepage **18.1.1**
SWAD6HM.HTM
 This page will have menu options across the top and a table below the menu. It should look like this:
-
- 5 Enter the heading **GYMNASTIC** **17.1.4**
 Set the text to style h1.
- 6 Place the contents of **SWAD6MEN.HTM** below the heading *GYMNASTIC* **18.1.2**
 to create the menu. This table must have no visible borders. Set the text **17.1.4**
 to style h2.
- 7 Create a hyperlink for the menu item *Rowing Machine* to point to the file **18.2.1**
SWAD6GYM.HTM which should open in a new window called **18.2.2**
EXTERNAL
- Note that the web page which you have linked to is not yet complete.

- 8 Below the menu table, create a new table which has 5 rows and 2 columns. 19.1.1
- 9 Merge the cells to create the table as shown below. 19.1.3
- | | |
|---|---|
| A | B |
| C | D |
| E | |
| F | |
| G | |
- 10 Set a 4 point border size for the table. 19.1.2
- 11 Using the contents of the file **SWAD6INT.HTM** 17.1.4
- place the text *What we do* into cell A and format this as style h2
 - place the text *Our company sells...retail prices.* into cell B and format this as style h3
 - place the text *We keep the...is on-line.* into cell C and format this as style h3
 - place the text *You can contact... different media.* into cell D and format this as style h3
 - place the text *Through our... on this website.* into cell E and format this as style h3
 - place the text *In all cases... of our services.* into cell G and format this as style h2.
- 12 Import the image **SWAD6GYM.JPG** and place it in cell F. 20.1.1
Set the width to 500 pixels and maintain the aspect ratio. 20.1.2
Make sure that the whole image is visible. 20.2.1
Centre align the image.
- 13 Make sure that you have attached the stylesheet to this page and save the page as **SWAD6HM.HTM** 17.1.4
21.1.1
- Make sure your name is displayed on each page. Print this page as it is viewed in your browser. Print a copy of the HTML source.
- 14 Open the file **SWAD6ICO.JPG** in a suitable application. Change its size to 35 pixels wide and maintain the aspect ratio. Ensure that the colour depth is 256 colours (8 bit colour) and save the file as **SWAD6ICO.GIF** 20.2.1
20.2.2
- 15 Open the file **SWAD6GYM.HTM** 20.1.1
Import the image **SWAD6ROW.JPG** into the right cell of the table. 20.1.2
Resize the image **SWAD6ROW.JPG** to 300 pixels wide and maintain the aspect ratio. 20.2.1
20.2.2

- 16 Replace the text *click here* (at the bottom of the page) with the image 18.2.1
SWAD6ICO.GIF 18.2.2
Make this a link (in the same window) to the file **SWAD6HM.HTM** 20.1.1
- 17 Make sure that you have attached the stylesheet to this page. 17.1.4
Save the page as **SWAD6GYM.HTM** 21.1.1

Make sure your name is displayed on each page. Print this page as it is viewed in your browser. Print a copy of the HTML source.

PRESENTATION AUTHORIZING

Your manager has asked you to set up a presentation for an educational organisation, for students who study business and academic subjects, called *The College*.

The medium for delivery will be a multimedia projector. Presenter notes need to be developed with the slides.

- | | | | |
|---|---|-------------------------------|--------------------------------|
| 1 | Set up a new presentation consisting of 3 slides. The slide master must have a light green background and your name and today's date in small black text placed in the top left corner. It must also contain clipart as a logo placed in the top right corner. The logo must be resized so that it does not overlay any slide text. | ✓
<input type="checkbox"/> | 22.1.1
22.3.1 |
| 2 | Set the following styles of text throughout the entire presentation:
Heading: Dark blue, right aligned, large font (between 50 and 68 point)
Subheading: Bright blue, centred, medium font (between 36 and 48 point)
Bulleted list: Dark green, left aligned, small font (between 16 and 34 point)
Use a bullet of your choice. | <input type="checkbox"/> | 22.1.1 |

On the first slide:

- | | | | |
|---|---|--------------------------|---------------|
| 3 | Enter the heading The College | <input type="checkbox"/> | 22.2.1 |
| 4 | Enter the subheading Student enrolments below the heading. | <input type="checkbox"/> | 22.2.1 |
| 5 | Add the following presenter notes to this slide:

Introduce yourself and your role within the college. | <input type="checkbox"/> | 22.2.1 |

On the second slide:

6 Enter the heading **Department enrolments 2006** in the same style as the first slide. 22.2.1

7 Enter the following list on the left side of the slide, as shown below: 22.2.1

- **Business/IT**
- **Catering**
- **Art & Design**
- **Science**
- **Technology**

8 Produce a vertical bar chart from the following data: Place this chart on the right side of the slide. Make sure that you include a legend showing the subjects. 22.3.2

Product	\$
Business/IT	350
Catering	275
Art & Design	196
Science	371
Technology	215

9 Draw a thick dark blue vertical line between the graph and the text with an arrow on both ends. 22.3.3

10 The bullets should be set to appear one at a time. 23.2.1

11 Add the following presenter notes to this slide: 22.2.1

We have a wide variety of courses on offer. Call in and speak to our enrolment department.

On the third slide:

- | | | | |
|----|--|-------------------------------|--------|
| 12 | Enter the heading Student activities in the same style as the first slide. | ✓
<input type="checkbox"/> | 22.2.1 |
| 13 | Enter the following list on the left side of the slide: | <input type="checkbox"/> | 22.2.1 |
| | <ul style="list-style-type: none"> ➤ Keep fit ➤ Basketball ➤ Football ➤ Gymnasium ➤ Reading club | | |
| 14 | Place a further clipart image showing sports e.g. football, on this page to the right of the bullets. | <input type="checkbox"/> | 22.3.1 |
| | Add the following presenter notes to this slide: | <input type="checkbox"/> | 22.2.1 |
| | The college offers many extra curricular activities. | | |
| | Why not call in and discuss your needs? | | |

For the whole presentation:

- | | | | |
|----|---|--------------------------|--------|
| 15 | Use the same transitional effect between each slide. | <input type="checkbox"/> | 23.1.1 |
| 16 | Use only one animation effect on the title of each slide. | <input type="checkbox"/> | 23.2.1 |
| 17 | Save the presentation using a new filename. Print the presentation in notes format showing all presenter notes. | <input type="checkbox"/> | 24.1.1 |

(Please note – your tutor will need to assess the transitions and animations before sending in your work.)

After the examination time

On your html printout highlight those portions of the code which show that:

The external stylesheet is attached to each webpage

The table borders are set to 0 and 4 points

SWAD6GYM.JPG is resized to 500 pixels wide

SWAD6GYM.JPG is centre aligned

The hyperlink from **Rowing Machine** opens **SWAD6GYM.HTM** in a new window called **EXTERNAL**

SWAD6ROW.JPG is resized to 300 pixels wide

SWAD6ICO.JPG has been changed to .gif format

SWAD6ICO.GIF is resized to 35 pixels

SWAD6ICO.GIF hyperlinks to **SWAD6HM.HTM**

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