

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
INFORMATION AND COMMUNICATION
TECHNOLOGY**

2357/01

Paper 1 (Foundation Tier)

Candidates answer on the Question Paper

OCR Supplied Materials:

None

Other Materials Required:

None

**Monday 21 June 2010
Morning**

Duration: 1 hour



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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MODIFIED LANGUAGE

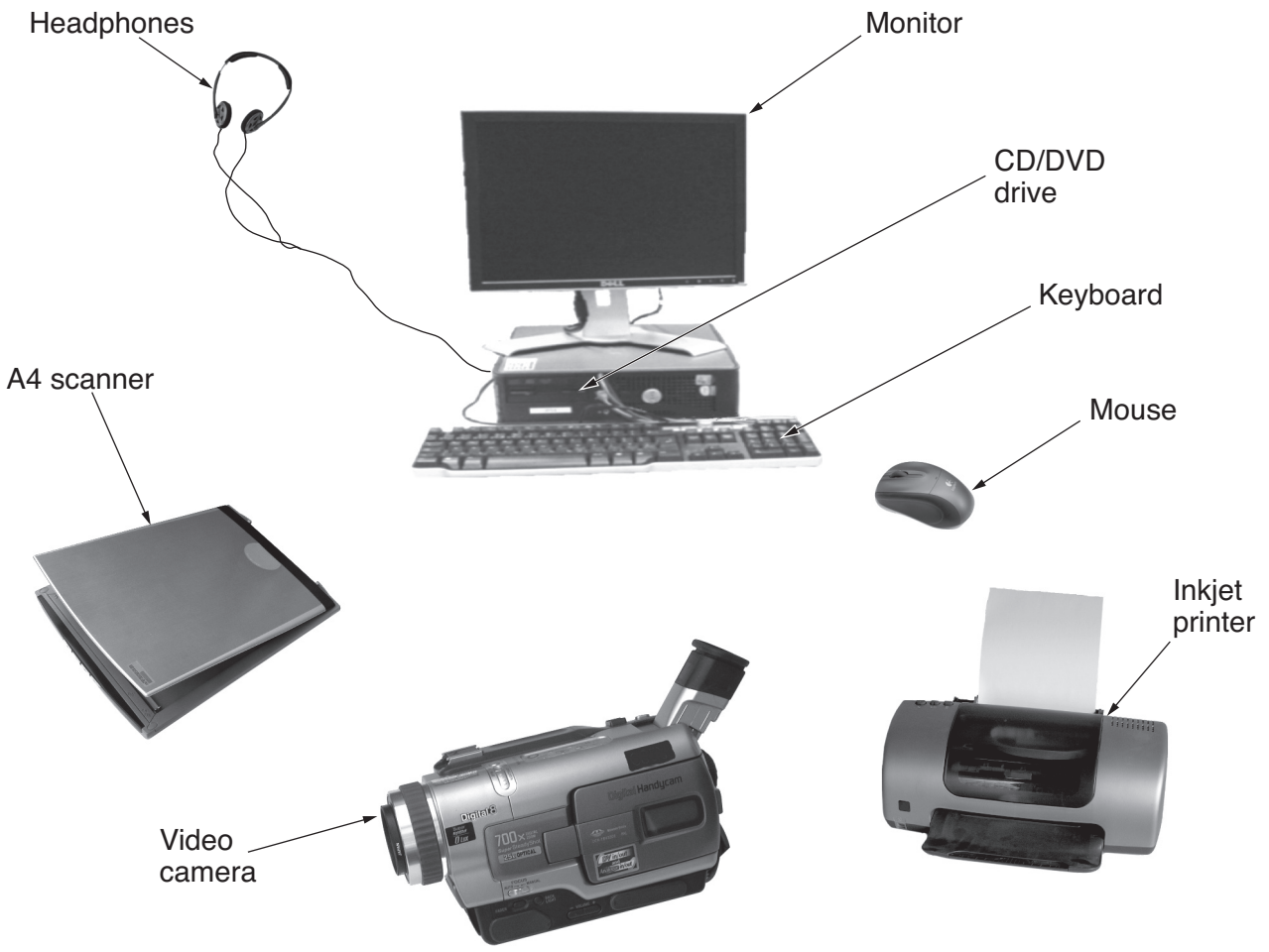
INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your Candidate Number, Centre Number and question number(s).

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- No marks will be awarded for using brand names of software packages or hardware.
- This document consists of **16** pages. Any blank pages are indicated.

1 Alun uses the desktop computer system shown to capture and edit his home videos and photographs.



(a) Tick **one** box in each row to show whether the device is input, output or storage.

Device	Input (✓)	Output (✓)	Storage (✓)
A4 scanner			
CD/DVD drive			
Keyboard			
Monitor			
Video camera			

[5]

(b) Alun wishes to make copies of some of his photographs to display on his wall. Identify the device in his system that is most suitable for this task.

..... [1]

(c) Identify the device in his system that is used to output sounds.

..... [1]

(d) Name the (most suitable) device that Alun could use to choose from an on-screen menu.

..... [1]

(e) Alun wishes to add a spoken commentary to his videos. Name **one** additional input device that he will need to be able to do this.

..... [1]

2 Pamela runs a tea shop. She is creating a menu using a desktop computer in her office. She uses some large graphics files and some text.

Pam's Cakes and Teas!

Price list

- Tea
 - £1-20 per cup
 - £2-50 per pot
- Coffee
 - £1-40 per cup
- Fruit juice
 - £0-90 per glass
- Sparkling water
 - £1-10 per bottle

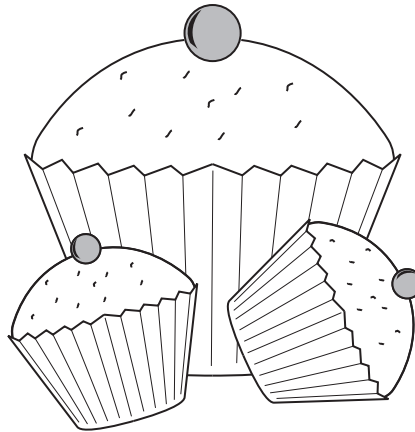
Slice of cake
75p each
Small cake
60p each

A

Text from a word processor file

Graphics from large files stored on disk

- (a) Pamela wants to change the image of the cake labelled A on the menu. She uses copy and paste to create two more cakes from the image at A to make the image shown.



Tick **three** other graphics tools that she would use to create the new image.

Graphics Tool	Tick (✓)
Crop	
Cut	
Flip	
Fill	
Resize	
Rotate	

[3]

- (b) Pamela wants to finish her menu at home.

- (i) She tries to print her menu files on her colour inkjet printer but no printout appears. Give **one** reason why this may have happened.

..... [1]

- (ii) She decides to take all of the menu's text and picture files to finish on her laptop at home. Give **one** suitable storage medium that she could use to take her menu files to her home.

..... [1]

Pamela uses a spreadsheet to show the costs and takings for two days. She uses formulas to calculate the totals.

	A	B	C	D	E	F
1	Items Sold	Price of each item	Saturday	Sunday	Total	
2	Cup of tea	£1.20	28	45	£87.60	
3	Cup of coffee	£1.40	38	76	£159.60	
4	Fruit juice	£0.90	35	18	£47.70	
5	Small cake	£0.60	9	31	£24.00	
6	Slice of cake	£0.75	22	18	£30.00	
7						
8				Total takings	<u>£348.90</u>	
9	Items bought	Price	Saturday	Sunday	Total	
10	Box of 50 tea bags	£1.80	2	4	£10.80	
11	Jar of coffee	£2.86	3	5	£22.88	
12	Pack of 10 small cakes	£8.00	2	2	£32.00	
13	Whole cakes	£3.50	4	4	£28.00	
14						
15				Total costs	<u>£93.68</u>	
16						
17				Profit		
18						
19						
20						

(c) Pamela is making a loss on the sales of small cakes. She decides to raise the price of a small cake.

(i) Give the cell reference of the cell she should change to raise the price of small cakes.

Write the cell reference here: [1]

(ii) Give the cell references of **two** cells that would change as a result.

.....

..... [2]

(d) Tick **one** box in each row to show what the cells contain.

Cell	Value (✓)	Formula (✓)	Label (✓)
B1			
B6			
E6			

[3]

(e) Pamela wishes to calculate her overall profit for the two days.

(i) Write a suitable formula that would do this for her.

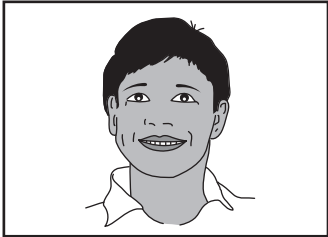
..... [2]

(ii) Give the cell reference of the most suitable cell in which to write the formula.


..... [1]

- 3 Roger keeps records of his class of students in a database. Part of the database is shown here as a report.

Students in my Class

<p>Forename <input style="width: 150px;" type="text" value="Devendra"/></p> <p>Family name <input style="width: 150px;" type="text" value="Chettiar"/></p> <p>Home telephone number <input style="width: 150px;" type="text" value="01632 9610966"/></p> <p>Home address</p> <p>House No. <input style="width: 150px;" type="text" value="58"/></p> <p>City <input style="width: 150px;" type="text" value="Cambridge"/></p> <p>Post Code <input style="width: 150px;" type="text" value="CB27 8QT"/></p> <p>Number of brothers/sisters <input style="width: 30px;" type="text" value="2"/></p>	<p>Student ID <input style="width: 80px;" type="text" value="902367"/></p> <p>Gender (M/F) <input style="width: 80px;" type="text" value="M"/></p> <p>Date of Birth <input style="width: 80px;" type="text" value="22-10-1995"/></p> <p>Photograph</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <p style="text-align: center;"><i>Previous</i> ← → <i>Next</i></p>
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Students in my Class

<p>Forename <input style="width: 150px;" type="text" value="Jasmine"/></p> <p>Family name <input style="width: 150px;" type="text" value="Wang"/></p> <p>Home telephone number <input style="width: 150px;" type="text" value="01632 9610959"/></p> <p>Home address</p> <p>House No. <input style="width: 150px;" type="text" value="61a"/></p> <p>City <input style="width: 150px;" type="text" value="Cambridge"/></p> <p>Post Code <input style="width: 150px;" type="text" value="CB27 9SB"/></p> <p>Number of brothers/sisters <input style="width: 30px;" type="text" value="0"/></p>	<p>Student ID <input style="width: 80px;" type="text" value="902355"/></p> <p>Gender (M/F) <input style="width: 80px;" type="text" value="F"/></p> <p>Date of Birth <input style="width: 80px;" type="text" value="26-09-1995"/></p> <p>Photograph</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <p style="text-align: center;"><i>Previous</i> ← → <i>Next</i></p>
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(a) How many records are shown?

..... [1]

(b) How many fields are shown?

..... [1]

(c) Each record has a data type chosen from these available types:

- text
- real number
- integer
- date
- Boolean

Give the most suitable data type, from the list, for each of the fields shown in the table. State why you have chosen that data type.

The first one has been done for you.

Field	Data type	Why this data type has been chosen
House No.	Text	Because house numbers could be a mixture of numbers or letters e.g. 61a
Gender (M/F)		
Home telephone number		
Number of brothers/sisters		

[6]

(d) Explain why Roger chose a database rather than a spreadsheet for storing the details of his students.

.....

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.....

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.....

.....

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.....

.....

..... [4]

(e) The Student ID field is used to identify each record in the database.

(i) Give the database term used to describe this use of a field.

..... [1]

(ii) Explain why this field is suitable for this purpose.

..... [1]

- (f) Roger stores this information on the school computer system. He can also access it from home using the internet.

Explain how the school can try to prevent unauthorised people from accessing the information.

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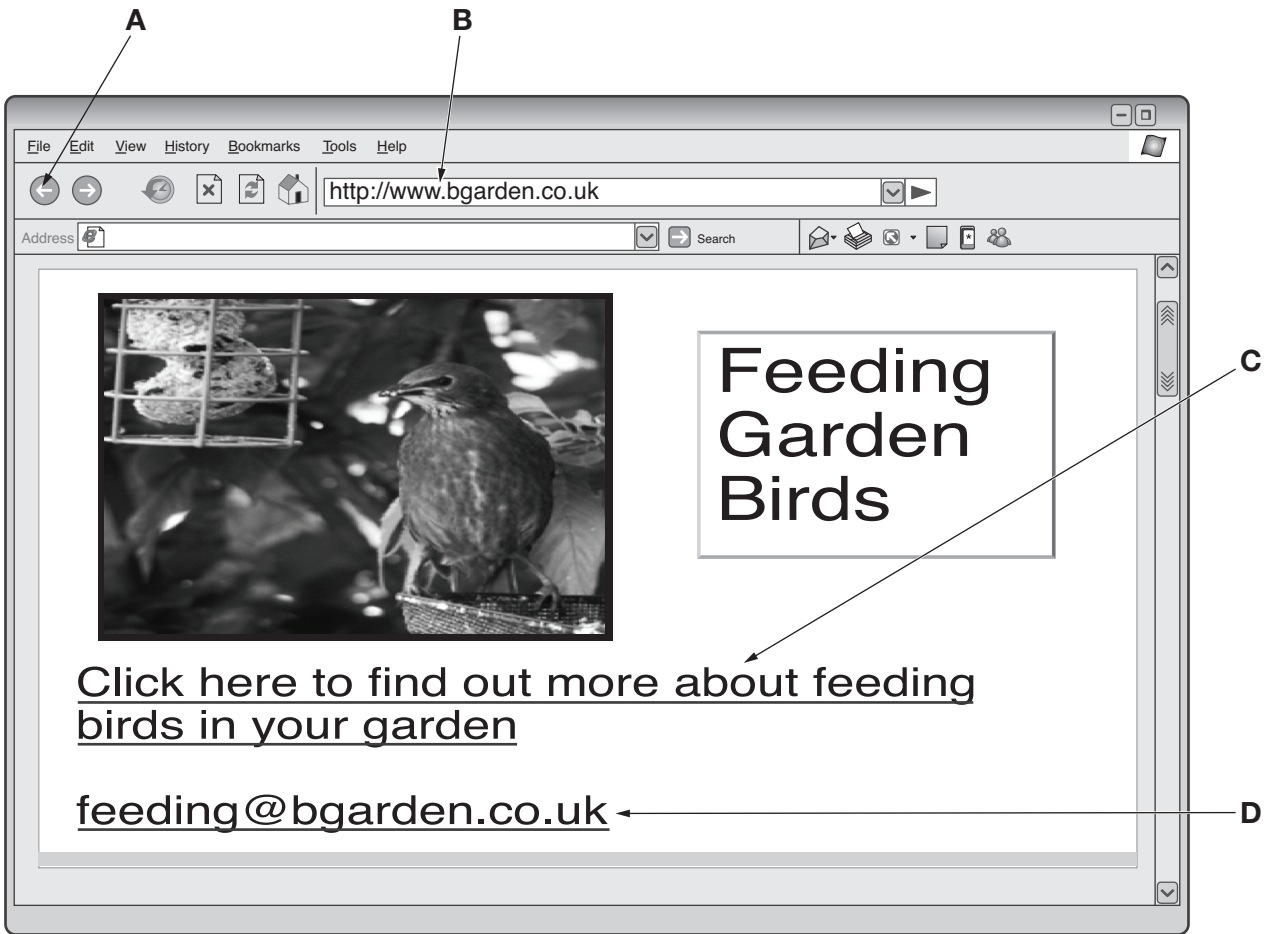
.....

.....

.....

..... [6]

4 This is a web page about feeding garden birds.



(a) Tick **one** box in each row to identify these features of a web browser.

Feature	Back button (✓)	Email address (✓)	Hyperlink (✓)	Web address (✓)
A				
B				
C				
D				

[4]

(b) Give **two** ways, other than using the back button, that a user could use/access to return to this page.

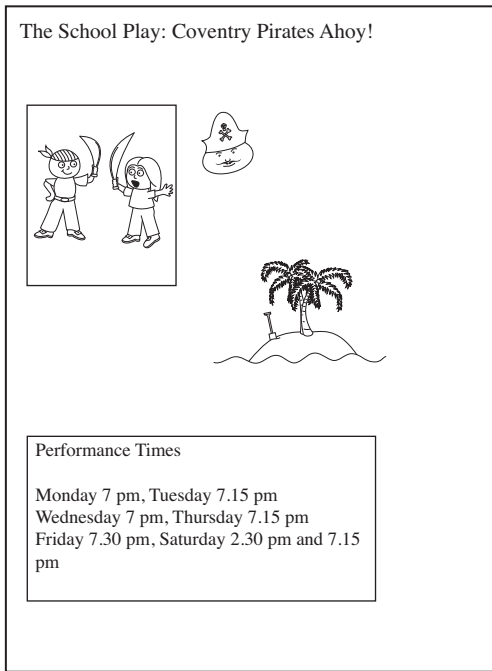
Way 1

.....

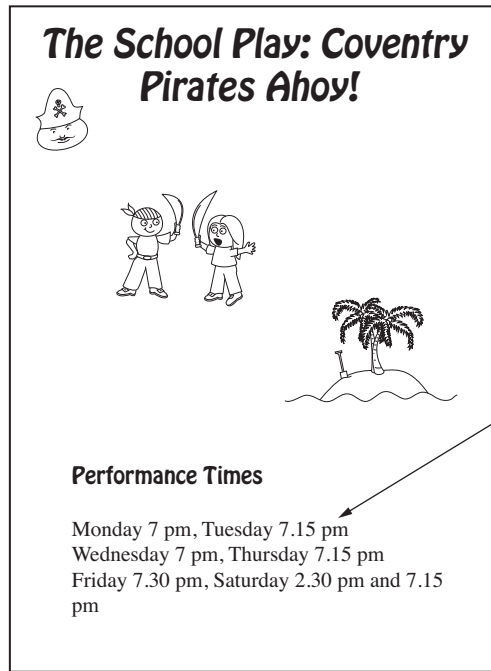
Way 2

..... [2]

5 These are two versions of a poster advertising a school play.



This is a draft version of the poster.



This is an improved version.

(a) Some improvements have already been made to the poster but more need to be done.

Give **two** ways in which the appearance of the list of Performance Times at **A** could be improved.

.....

.....

.....

..... [2]

(b) The details in the list were copied from the school newsletter.

How could the details in the list on the poster be checked to make sure they are correct?

.....

.....

.....

..... [2]

6 A medical practice has surgeries on several sites. It stores all its patients' information on the main site's computer network. Computers on other sites can connect to the network or access the information via the internet.

(a) One site still uses a dial-up connection along ordinary telephone lines to access the information stored on the main site's network.

(i) State **one** extra hardware device that this site must have to make a dial-up connection.
..... [1]

(ii) How is this device needed when making dial-up connections?
.....
.....
.....
..... [2]

(b) Another site uses a digital broadband connection to access the internet. Explain why a digital broadband connection is better than a dial-up connection.
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..... [4]

15
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