



Wednesday 14 May 2014 – Morning

GCSE INFORMATION AND COMMUNICATION TECHNOLOGY

B061/02 ICT in Today's World

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour



Candidate forename						Candidate surname					
Centre number						Candidate number					

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- 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).
- Do **not** write in the bar codes.

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**.
- Your Quality of Written Communication is assessed in questions marked with an asterisk (*).
- This document consists of **12** pages. Any blank pages are indicated.

2

- 1 Draw a line to link each element of a graphical user interface to its use.

The first one has been done for you.

Element	Use
Window	to click on to open an application
Icon	to display a set of choices to the user
Menu	to select an item on a screen
Pointer	to display tasks being worked on

[3]

- 2 Items for sale in a shop have barcodes printed on the packets.

(a) Describe **two** benefits to the shop of having barcodes on items.

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[4]

(b) Describe **one** drawback to the shop of having barcodes on items.

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[2]

3

- 3 Lizzie uses a computer system to monitor the temperature in her garden and to record the activity of birds visiting her bird table, as shown in Fig. 1.

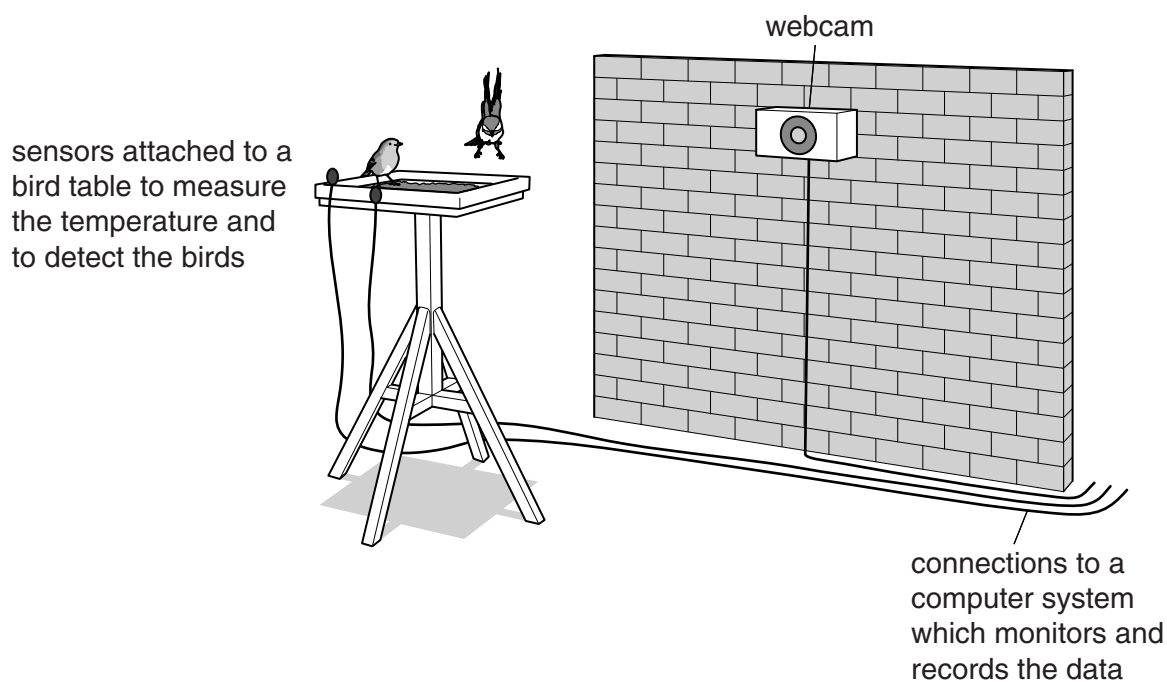


Fig. 1

- (a) State **two** advantages of using a computer system for monitoring and recording the data.

1

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2

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[2]

- (b) Explain **one disadvantage** of using a computer system for monitoring and recording the data.

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[2]

3 (cont'd)

The computer system collects data between 09:00 and 12:00. Lizzie wants to use some of the data in a presentation to her class at school.

The tables below show some of the data.

Time interval	Number of visiting birds
09:00 to 09:30	1
09:30 to 10:00	6
10:00 to 10:30	12
10:30 to 11:00	10
11:00 to 11:30	9
11:30 to 12:00	8

Table 1

Time	Temperature (°C)
09:00	8.0
09:30	10.5
10:00	12.2
10:30	13.4
11:00	13.6
11:30	13.9
12:00	14.0

Table 2

(c) Lizzie wants to use the data in these tables in a presentation to her class at school.

(i) Table 1 shows the number of visiting birds.

What type of chart would be **most** suitable for displaying this data?

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Give a reason for your choice of chart.

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[2]

(ii) Table 2 shows the temperature data.

What type of chart would be **most** suitable for displaying this data?

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Give a reason for your choice of chart.

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[2]

- (iii) Describe how Lizzie could use ICT to create and use charts when presenting the data to her class at school.

[6]

- (d) Describe **two other** appropriate uses for the data collected from the sensors and the webcam shown in Fig. 1.

1

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2

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[4]

- 4 Complete the table below to give **one** appropriate use for **each** of the devices shown.

Device	Appropriate use for the device
A4 scanner	
External hard disk	
Touch pad	
USB flash memory card	

[4]

- 5 Eve is creating a digital video on her laptop when the laptop appears to stop working. Eve is worried that the laptop has 'frozen' and her work has been lost.

- (a) Give **two** reasons why Eve's laptop might have 'frozen'.

1

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2

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[2]

- (b) Explain **one** way that Eve could try to solve this problem and continue to create her digital video.

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..... [2]

6 Tick **one** box in each row to show whether the task is an example of validation or verification.

Example	Validation (✓)	Verification (✓)
A password is entered twice when creating a new online account		
Copying the date of birth of a new club member into a database and checking that it is the same as on the membership form		
Entering a house number of 2 into a street database and receiving the message that houses in that street start at number 10		
Entering data by choosing from a drop down list		
Not being able to submit an online form because you haven't entered all of the required data		

[5]

7* Explain the social and ethical implications of the electronic transmission of personal information.

Marks will be awarded for the quality of written communication in your answer.

..... [8]

- 8 Fig. 2 shows a set of rules given to a new worker in an office.

Make sure you follow these rules for making backups of your files.

Rule 1: back up your work every hour

Rule 2: make more than one backup each time

Rule 3: use a sensible file name for each backup

Rule 4: keep your backups separate from your work area

Fig. 2

Give **one** reason for each of these rules.

Rule 1: back up your work every hour

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Rule 2: make more than one backup each time

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Rule 3: use a sensible file name for each backup

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Rule 4: keep your backups separate from your work area

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[4]

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