

Tuesday 15 January 2013 – 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	
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Centre number						Candidate number				
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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 Fig. 1 shows a hand-held tablet computer. Some of its features are labelled.

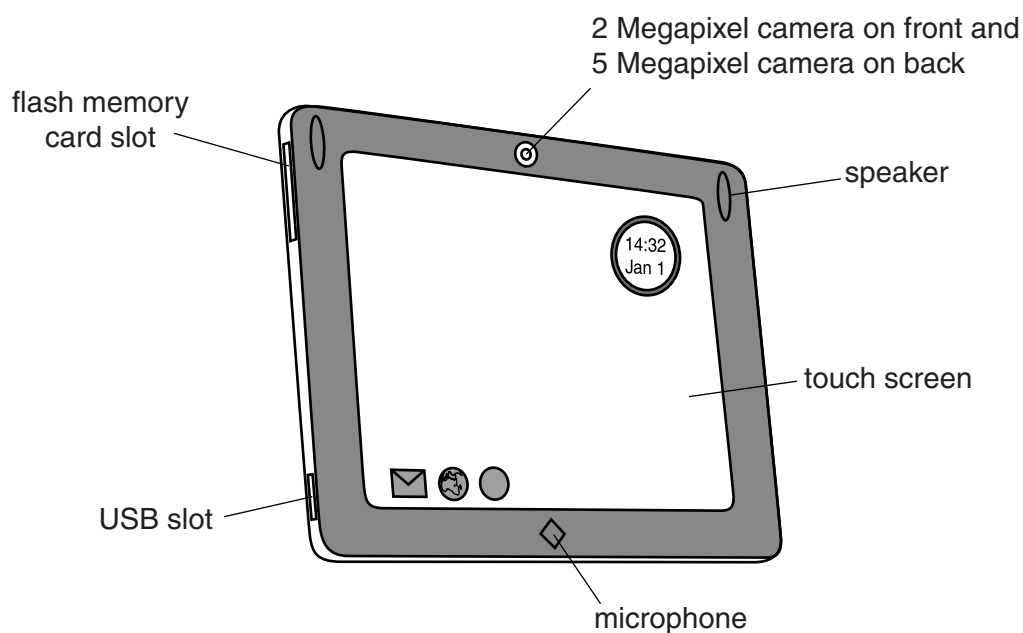


Fig. 1

- (a) Identify **one** input and **one** output device shown in Fig. 1.

Input device

Output device

[2]

- (b) The tablet computer also has sensors.

- (i) State **one** sensor in the tablet computer.

..... **[1]**

- (ii) State how the tablet computer would make use of this sensor.

.....

..... **[1]**

- (c) Describe how a user would open a web browser on the tablet computer.

.....

.....

.....

..... **[2]**

3

- (d) The tablet computer does not have a physical keyboard.

Give **two** different ways that a user could enter the text of an email when using the tablet computer.

1

.....

2

.....

[2]

- (e) The tablet computer uses (solid state) flash memory for storage instead of a (magnetic) hard disk.

- (i) Give **two** advantages of using flash memory for storage.

1

.....

2

.....

[2]

- (ii) Give **one disadvantage** of using flash memory for storage.

.....

..... [1]

- (f) The tablet computer uses WiFi to connect to a network and Bluetooth to connect to other devices.

- (i) What is WiFi?

.....

.....

.....

..... [2]

4

(ii) State **two** differences between WiFi and Bluetooth technologies.

- 1
-
- 2
-
- [2]

Fig. 1 shows that the tablet computer has a 2 Megapixel camera on the front and a 5 Megapixel camera on the back.

(g) Why does the tablet computer have a camera on **each** side?

-
-
-
-
- [2]

2 Draw a line from each file type to the type of content it would store.

File type

JPEG
MPEG
RTF
MP3

Type of content stored

audio
document
image
video

[4]

5

- 3 (a)** Complete each of the sentences below with the correct spreadsheet term.

B2 refers to a

B2:B6 refers to a

[2]

- (b)** When using spreadsheets, what is the purpose of a formula?

.....
.....
.....
..... [2]

- (c)** What is an absolute cell reference in a spreadsheet?

.....
.....
.....
..... [2]

- 4** What is meant by the database term 'record'?

.....
.....
.....
..... [2]

6

- 5 A software engineer is designing a new computer database system for a school library.

Describe **three** considerations that the software engineer needs to take into account when designing the database system.

1

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.....

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2

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.....

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3

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.....

.....

[6]

- 6 Explain **one** advantage of using quantum cryptography to keep data secure.

.....

.....

.....

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.....

.....

[3]

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

[8]

8

8 Describe **three** ways that ICT can be used to help identify suspected criminals.

1

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2

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3

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[6]

10

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