



Friday 13 January 2012 – Morning

GCSE INFORMATION AND COMMUNICATION TECHNOLOGY

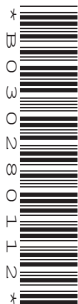
B061/02 ICT in Today's World

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.

1 Fig. 1 shows a chip and PIN card reader.

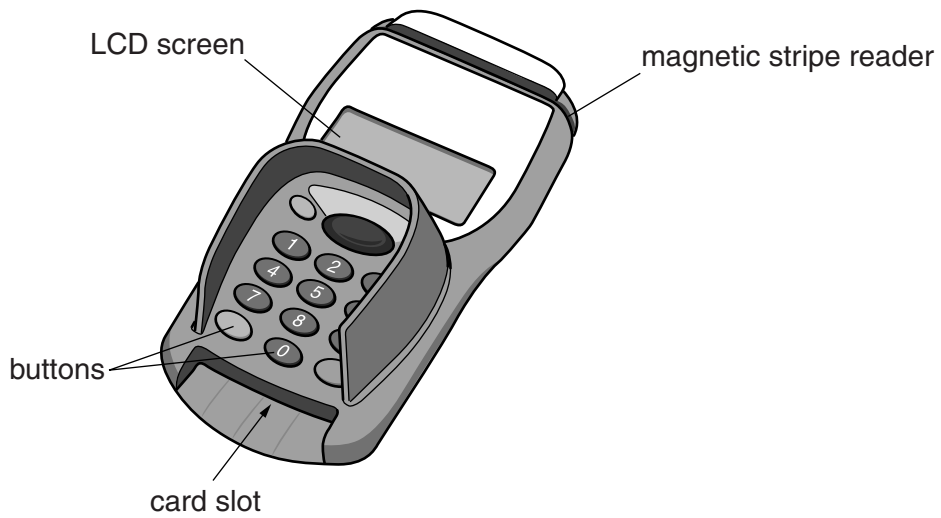


Fig. 1

(a) (i) State **one** item of information that might be displayed on the LCD screen.

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

(ii) State **one** item of information that might be entered using the buttons.

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

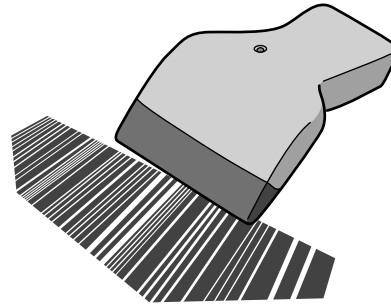
(iii) Explain why it is necessary to have a magnetic stripe reader.

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

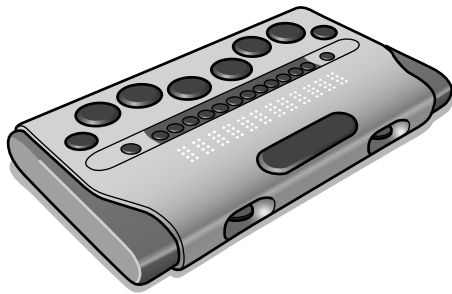
2 Fig. 2 shows four devices.



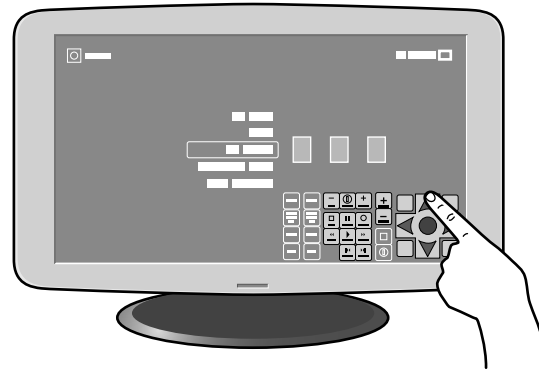
puff-suck switch



barcode reader



braille keyboard



touch screen

Fig. 2

Complete the table below to show an example of a use for each device shown in Fig. 2.

Device	Example of use
Puff-suck switch	
Barcode reader	
Braille keyboard	
Touch screen	

[4]

4 Tracey has finished word-processing a document in the school library.

What should Tracey do to leave the computer ready for the next user?

.....

.....

.....

..... [2]

5 Describe how the Computer Misuse Act helps to protect data stored on a computer system.

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.....

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.....

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.....

.....

..... [4]

6 Describe the main difference between a flat file database and a relational database.

.....

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.....

.....

.....

.....

..... [3]

7 Fig. 3 shows some devices connected in a network.

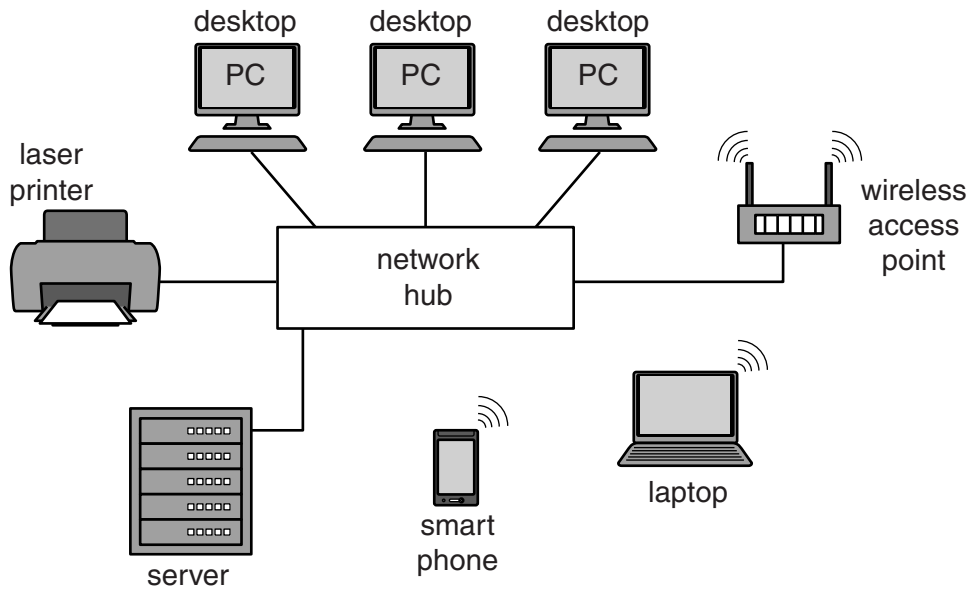


Fig. 3

(a) Describe the purpose of each of the devices listed below:

Server

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

Network hub

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

(b) Give **two** reasons why home computer users often use wireless network technology.

1
.....
2
..... [2]

(c) Explain **one** possible problem of using wireless network technology.

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

8 RFID tags are often attached to items, such as clothing or DVDs, in shops.

(a) State **three** benefits to a shop of using RFID tags.

1
.....
2
.....
3
..... [3]

(b) Describe **one** other use of RFID tags.

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

9 Steve has created a wedding invitation, shown in Fig. 4.

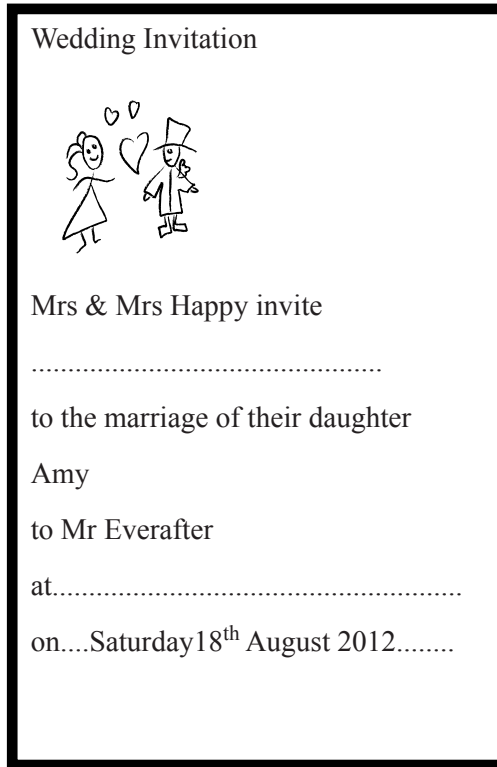


Fig. 4

State **three** different ways that this invitation could be improved. Give a reason for each.

Way 1

Reason

.....

Way 2

Reason

.....

Way 3

Reason

..... [6]

10 It is essential that errors in a school database are minimised.

Explain why **both** verification **and** validation should be used when entering the details of new students into a school database.

.....

.....

.....

.....

.....

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.....

..... [4]

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