

Candidate forename		Candidate surname	
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Centre number						Candidate number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE**

B061/02

**INFORMATION AND COMMUNICATION
TECHNOLOGY**

ICT in Today's World

FRIDAY 13 JANUARY 2012: Morning

DURATION: 1 hour

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

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).**

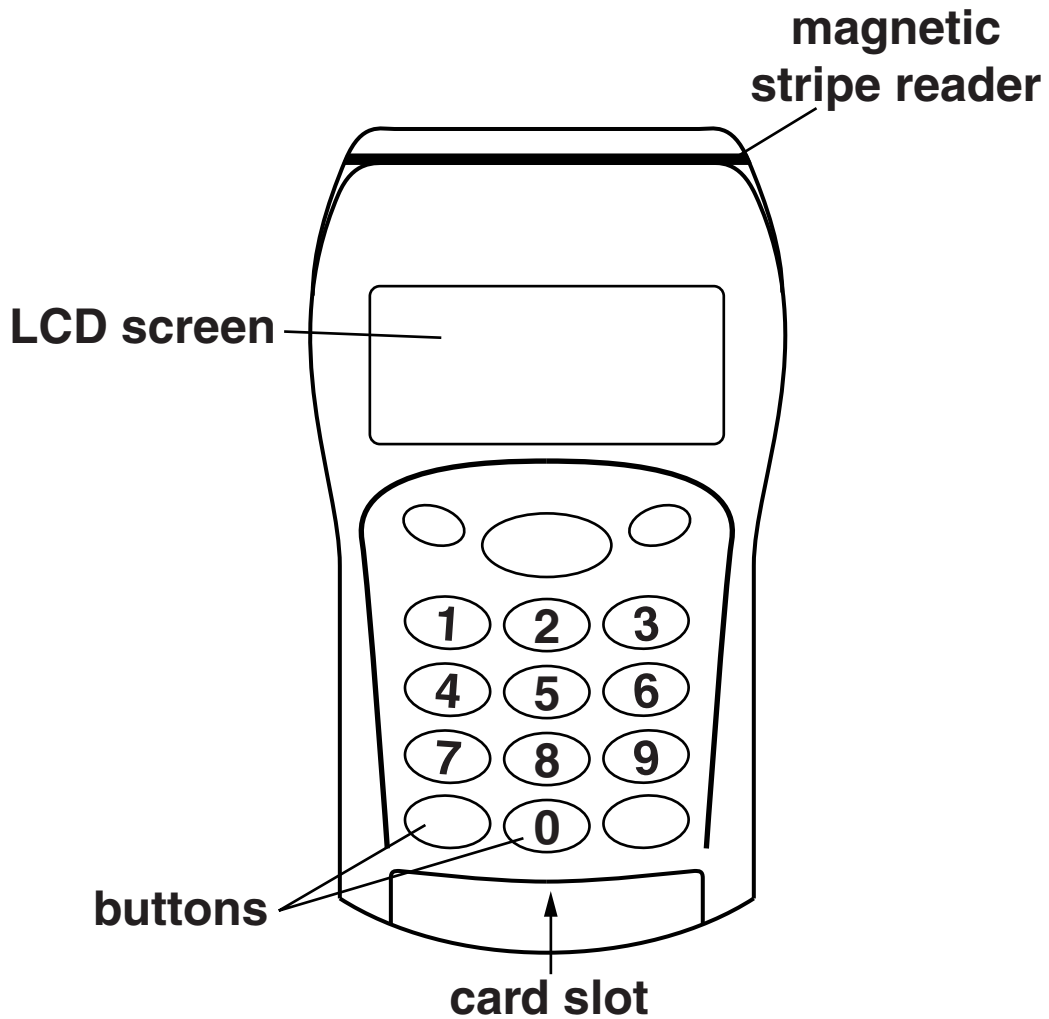
INFORMATION FOR CANDIDATES

- **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 (*).**

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1 Fig. 1 below 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]

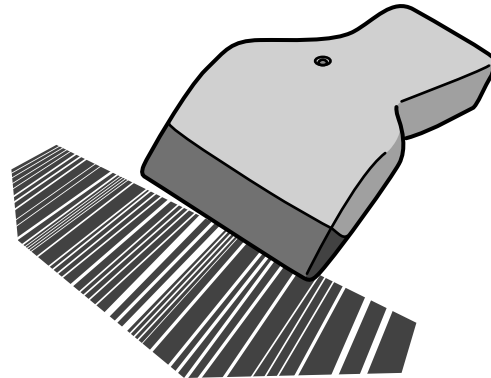
(b) Explain how users can ensure that their data is kept safe when using the chip and pin reader. [4]

2 Fig. 2 shows four devices.

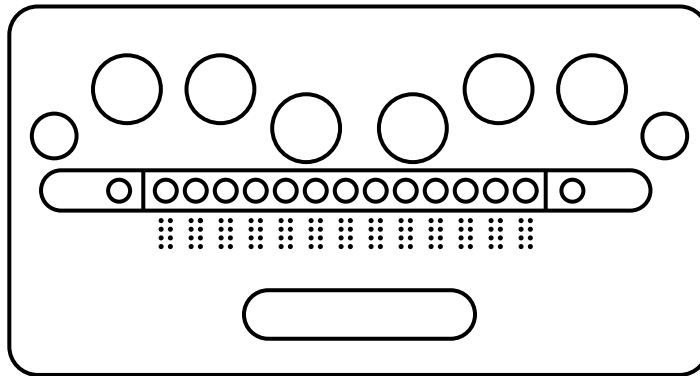
Fig. 2



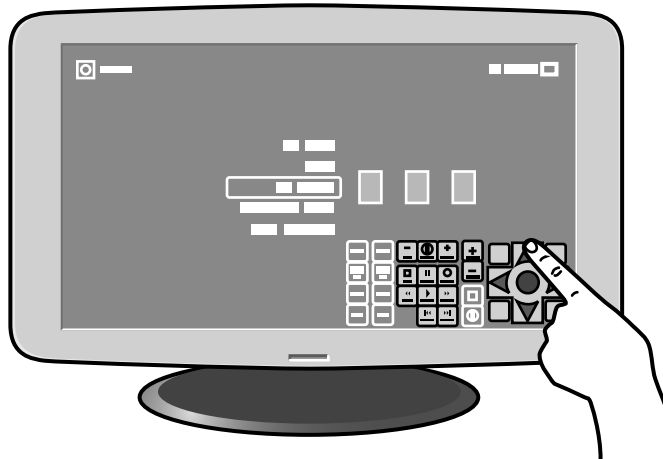
puff-suck switch



barcode reader



braille keyboard



touch screen

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

DEVICE	Puff-suck switch	Barcode reader	Braille keyboard	Touch screen
EXAMPLE OF USE				

[4]

3* A high street bank has introduced a range of online banking services.

Discuss the impact on the bank and its customers of the introduction of online services.

The quality of written communication will be assessed in your answer to this question. [8]

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]

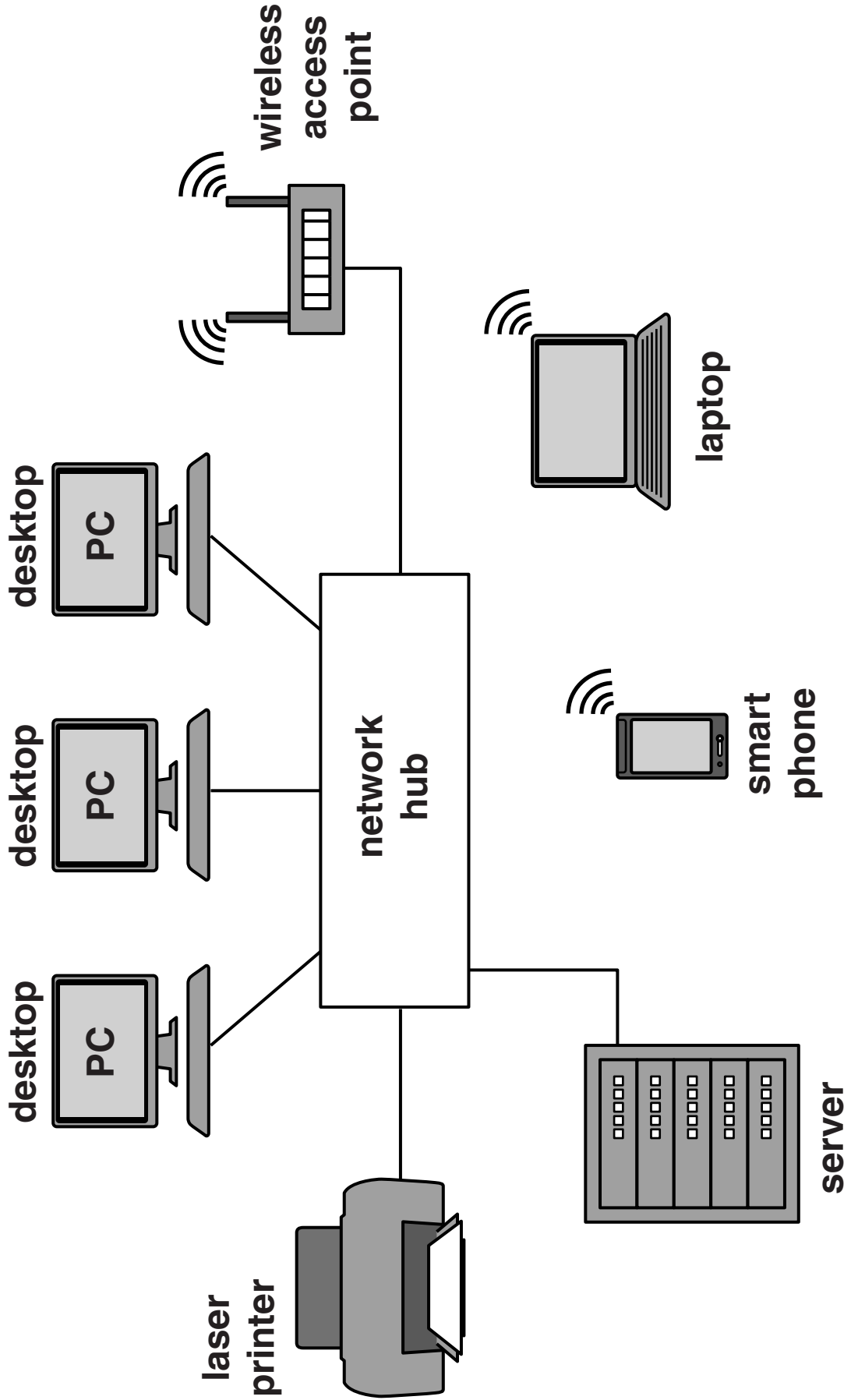
5 Describe how the Computer Misuse Act helps to protect data stored on a computer system. [4]

6 Describe the main difference between a flat file database and a relational database. [3]

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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. [2]

1 _____

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. [3]

1 _____

2 _____

3 _____

(b) Describe ONE other use of RFID tags. [2]

9 Steve has created a wedding invitation, shown in Fig. 4 on the opposite page.

State THREE different ways that this invitation could be improved. Give a reason for each. [6]

Way 1 _____

Reason _____

Way 2 _____

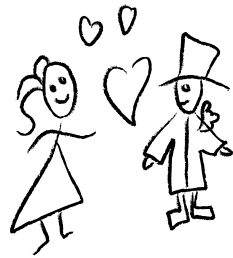
Reason _____

Way 3 _____

Reason _____

Fig. 4

Wedding Invitation



Mrs & Mrs Happy invite

.....

to the marriage of their daughter

Amy

to Mr Everafter

at.....

on....Saturday18th August 2012.....

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. [4]

11*ICT is used in a variety of ways to monitor where people are and what they are doing.

Discuss the use of ICT for this purpose.

The quality of written communication will be assessed in your answer to this question. [8]



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