# OCR
RECOGNISING ACHIEVEMENT

**GCSE (FOUNDATION TIER)**

**INFORMATION AND COMMUNICATION TECHNOLOGY**

Paper 3

**WEDNESDAY 6 JUNE 2007**

Morning

Time: 1 hour

**F 2359/01**

Additional materials:
No additional materials are required.

Candidate
Name

Centre
Number

Candidate
Number

**INSTRUCTIONS TO CANDIDATES**

- Write your name, Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Do **not** write in the bar code.
- Do **not** write outside the box bordering each page.
- WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- No marks will be awarded for using brand names of software packages or hardware.
- The total number of marks for this paper is **60**.

| FOR EXAMINER'S USE | | |
|---|---|---|
| Question No. | Max. mark | Mark |
| 1 | 2 | |
| 2 | 4 | |
| 3 | 7 | |
| 4 | 3 | |
| 5 | 2 | |
| 6 | 4 | |
| 7 | 5 | |
| 8 | 2 | |
| 9 | 11 | |
| 10 | 6 | |
| 11 | 3 | |
| 12 | 6 | |
| 13 | 2 | |
| 14 | 3 | |
| TOTAL | 60 | |

This document consists of **8** printed pages.

**[Turn over**

**1** Circle **two** items suitable for storing data.

**CD-ROM**                              **monitor**                              **mouse**

**scanner**                             **speakers**                             **Zip drive**          [2]


**2** Choose **one** of the types of software listed below to complete each of the sentences.

**web browser**
**spreadsheet**
**painting package**
**CAD package**

A ………………………………………………………… is used to produce a picture.

A ………………………………………………………… is used to keep accounts for a small shop.

A ………………………………………………………… is used to produce a scaled drawing.

A ………………………………………………………… is used to view pages on the Internet.   [4]


**3** Complete each sentence below using **one** item from the list.

**account number**
**backup**
**Electronic Funds Transfer (EFT)**
**Magnetic Ink Character Recognition (MICR)**
**microphone**
**output**
**virus**

- An item of data stored on the magnetic strip on a credit card is the

  ………………………………………… .

- A program that corrupts data is called a ………………………………………… .

- A method used to read data from bank cheques is called ………………………………………… .

- A printer is a device used for ………………………………………… .

- A ………………………………………… is used to input sound to a computer.

- A method used in supermarkets when a customer pays for goods with

  a bank card is called ………………………………………… .

- A copy of data, often stored away from the computer, is called

  a ………………………………………… .

[7]

**4** Increased use of ICT has brought about many changes in the way businesses work.

Tick **three** examples of these changes.

|  | ✓ |
|---|---|
| Robots are used in car making. |  |
| No information is stored on computer. |  |
| Automated stock control is now used in supermarkets. |  |
| Fewer people need to be employed in certain businesses. |  |
| Architects no longer need to design buildings. |  |
| Businesses no longer send letters. |  |

[3]

**5** Tick **two** applications which use batch processing.

|  | ✓ |
|---|---|
| Theatre seat reservation systems. |  |
| Producing telephone bills. |  |
| Automatic pilot systems. |  |
| Controlling the environment in a greenhouse. |  |
| Clearing cheques in a bank. |  |
| Booking an aeroplane ticket. |  |

[2]

**6** Tick **four** items used in an automatic system to control the temperature in a greenhouse.

|  | ✓ |
|---|---|
| A computer |  |
| Analogue to digital converters |  |
| OMR |  |
| Temperature sensors |  |
| Water |  |
| Motors |  |
| Temperature control program |  |

[4]

**[Turn over**

**7** Local Area Networks (LAN) and Wide Area Networks (WAN) are two types of network.

Tick **one** box in each row to show whether the following statements refer to LAN or WAN.

| | LAN (✓) | WAN (✓) |
|---|---|---|
| Links computers in different countries. | | |
| More vulnerable to hackers. | | |
| Links computers in the same building. | | |
| The Internet is an example of this type of network. | | |
| Most likely to involve telecommunication links. | | |

[5]

**8** The term 'network topology' describes how a computer network is arranged.

Give the names of **two** network topologies.

Topology 1: ..................................................................................................................

Topology 2: ............................................................................................................. [2]

**9** Screen layouts are to be designed for a new on-line cinema booking system.

Bank card number, date of performance and customer name are three items of data that should be included on an input screen.

**(a)** State **four** other items of data that should be included on the input screen.

Item 1: ..............................................................................................................

Item 2: ..............................................................................................................

Item 3: ..............................................................................................................

Item 4: ......................................................................................................... [4]

**(b)** Produce a design for the input screen in the area below.

Marks will be awarded for:

- including appropriate items
- user friendly design
- clear layout.

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**The Ocean Cinema**

---

[5]

**(c)** Give **two** validation checks that could be used to make sure the data entered is reasonable.

Check 1 ...............................................................................................................................

..........................................................................................................................................

Check 2 ...............................................................................................................................

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

**[Turn over**

**10** A company that uses the Internet stores confidential data on its computer system.

Describe **three** methods that could be used to prevent unauthorised access to the data.

Method 1 ........................................................................................................................................

........................................................................................................................................

........................................................................................................................................

Method 2 ........................................................................................................................................

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Method 3 ........................................................................................................................................

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........................................................................................................................ [6]

**11** A company installs a new computer system. At 9.00am on Monday the old system is switched off and the new system is put into use.

**(a)** What name is given to this method of changeover?

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

**(b)** State **two** problems that may arise as a result of using this method of changeover.

Problem 1 ................................................................................................................................

................................................................................................................................

Problem 2 ................................................................................................................................

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

**12** A car manufacturer recalls a number of faulty cars. The manufacturer decides to use the mailmerge option in a word processor to prepare letters to customers.

**(a)** Describe how the manufacturer uses mailmerge to prepare the letters.

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........................................................................................................................... [4]

**(b)** Give **two** advantages of using mailmerge for this task.

Advantage 1 .................................................................................................................

.......................................................................................................................................

Advantage 2 .................................................................................................................

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

**13** State **two** actions that the Computer Misuse Act makes illegal.

Action 1 ........................................................................................................................

.......................................................................................................................................

Action 2 ........................................................................................................................

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

**PLEASE TURN OVER FOR THE LAST QUESTION**

**[Turn over**

**14** Text 1 shows part of a novel handwritten by an author.

> *The Adventure*
> *It was raining as she stormed out of the house and slammed the door behind her. There was nothing for it, she had made her bed and would now have to lie in it. She couldn't go back and apologise – well not just yet anyway. A flash of lightning lit up the street as she set off hoping she would find some shelter. Then her mind registered what she had seen in the brightness. It was a man in armour sitting astride a huge war horse!*

**Text 1**

Text 2 shows the same text after a secretary has typed it into a word processor.

> The Adventure
>
> It was reigning as she stormed out of the house and slammed the door behind her. Their was nothing four it, she had made her bed and wood now **hvae** to lie in it. She couldn't go back and apologise – well not just yet anyway. A flash of lightning lit up the street as she set off hopping she would find some shelter. Then her mind registered what she had seen in the brightness. It was a man in **armur** sitting astride a huge war horse!

**Text 2**

**(a)** What should the secretary have done before printing out the work to make sure that the two underlined words were correct?

...................................................................................................................................................

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

**(b)** The secretary should have verified the word-processed work.

Describe how the secretary could have verified the work.

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