

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
INFORMATION AND COMMUNICATION
TECHNOLOGY**

2359/02

Paper 3 (Higher Tier)

Candidates answer on the Question Paper

OCR Supplied Materials:

None

Other Materials Required:

None

**Monday 28 June 2010
Afternoon**

Duration: 1 hour 15 minutes



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- 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**.
- No marks will be awarded for using brand names of software or hardware.
- This document consists of **12** pages. Any blank pages are indicated.

1 Tick **one** box in each row to show whether the activity stated is performed using utility software or application software.

Activity	Utility (✓)	Application (✓)
Creating a database		
Exploring options within a model		
Making a back up disk		
Moving a file from one disk directory to another		
Producing a word-processed document		

[5]

2 Describe each of the following data collection methods giving a use for each.

OMR

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Use

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MICR

.....

Use

..... [4]

3 Most supermarkets are now computerised.

(a) When a product is purchased the checkout operator needs to input details from the product.

(i) Identify **one** input device, other than a keyboard, which would be suitable for entering these details.

..... [1]

(ii) Give **two** reasons why this method is more suitable than using a keyboard.

Reason 1

.....

Reason 2

..... [2]

(b) Customers can use credit or debit cards to pay for the goods.

(i) Identify **one** input device, other than a keyboard, which would be suitable for entering details from these cards.

..... [1]

(ii) Give **two** items of data which will be read by this device.

Item 1

.....

Item 2

..... [2]

Many supermarkets are changing to internet shopping.

- (c) Give **three** advantages to the **customer** of using internet shopping rather than shopping at a supermarket.

Advantage 1

.....

Advantage 2

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Advantage 3

..... [3]

- (d) Give **four** effects that the change from supermarket shopping to internet shopping is having on the pattern of employment within the supermarket.

Effect 1

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Effect 2

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Effect 3

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Effect 4

..... [4]

- 4 Two types of network are a WAN and a LAN.
Give **two** characteristics of each.

WAN

1

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2

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LAN

1

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2

..... [4]

- 5 The ring network topology is less frequently used than in the past.
Explain why this has happened.

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..... [3]

6 Describe how a microprocessor would control the temperature inside a greenhouse, including inputs, processing and outputs.

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..... [6]

7 A travel agent wants to set up a database system for customer records. Describe the issues that should be considered when designing onscreen data entry forms.

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8 A number of organisations are using video conferencing rather than holding face to face meetings. Discuss the benefits and drawbacks of holding meetings by video conference.

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9 Explain why doctors use expert systems to help them with their diagnoses.

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..... [3]

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