



F

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

2359/01

Paper 3 (Foundation Tier)

**Thursday 16 June 2011
Afternoon**

Duration: 1 hour

Candidates answer on the question paper.

OCR supplied materials:

None

Other materials required:

None



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. Pencil may be used for graphs and diagrams only.
- 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).
- Answer **all** the questions.
- 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**.
- This document consists of **8** pages. Any blank pages are indicated.

1 Circle **two** storage media used for moving data from one computer to another.

CD-R

DVD

Fixed hard disk

Graph plotter

MICR

Microphone

[2]

2 Tick whether the following statements are true or false.

	True (✓)	False (✓)
A control program is used in a microwave oven		
A database is used to store patient records in a hospital		
A spreadsheet is used to manage personal finance		
A word processor is used to produce letters		
An internet browser is used to create a slide show		

[5]

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

A bar code reader

A graphics tablet

A touch screen

Voice input

..... is used to help people who have no use of their hands to enter data into a computer.

..... is used to enter free hand drawings into a computer.

..... is used in libraries to input data from books.

..... is used by waiters in restaurants to select options at a till.

[4]

- 4 Tick **three** applications which use online processing.

	✓
A company's payroll system	
A computerised theatre booking system	
Entering the details of a new consignment of books in a library	
Paying a bill using home banking	
Printing examination certificates	
Withdrawing money at an ATM	

[3]

- 5 The table shows a number of statements about actions carried out in the systems life cycle. Tick **one** box in each row to show whether the action is carried out during the analysis phase or the design phase of the systems life cycle.

	Analysis (✓)	Design (✓)
Establishing the input, output and processing required		
Interviewing users of the current system		
Selecting fields for a database		
Specifying any validation required		

[4]

- 6 The table shows a number of statements about types of network.
Tick **one** box in each row to show whether the following statements are true or false.

	True (✓)	False (✓)
A LAN needs satellite communications to link computers		
A network within a school would be a LAN		
A WAN usually covers a very small area		
The internet is a WAN		

[4]

- 7 The table shows a number of statements about checking data.
Tick **one** box in each row to show whether the following are methods of validation or verification.

	Validation (✓)	Verification (✓)
A check digit		
A range check		
Double entry		
Visually checking data		

[4]

- 8 A school website contains text and graphics.
Give **four** other features that could be used to make the website more interesting.

- 1
-
- 2
-
- 3
-
- 4
- [4]

- 9 Data is often encrypted before it is transferred across the internet.
Tick whether each of the following statements about encryption is true or false.

	True (✓)	False (✓)
Data is encrypted to prevent viruses		
Encryption prevents hackers from deleting the data		
Encryption requires a key to decrypt the data		
Encryption scrambles the data so that it cannot be understood		

[4]

- 10 Name and describe **two** of the main features of a Graphical User Interface (GUI).

1

.....

.....

.....

.....

2

.....

.....

.....

..... [4]

- 11 Other than unemployment, identify **two** changes in employment patterns for bank workers due to the introduction of home banking.

1

.....

2

..... [2]

12 Organisations that collect personal data have a legal obligation to protect that data. Identify **four** principles from the Data Protection Act which the organisations must follow.

1

.....

2

.....

3

.....

4

..... [4]

13 A company needs to update its computer system. A new system has been developed and tested. Name and describe **three** alternative strategies which could be used to implement the new system.

1

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2

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3

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.....

..... [6]

14 A group of car mechanics have asked a computer company to develop an expert system for them.

Identify the stages in the development of this expert system.

.....

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..... [4]

15 Many supermarkets now have a website which allows customers to shop online.

(a) Describe the advantages of online shopping **to the customer**.

.....

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.....

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.....

..... [3]

(b) Describe the advantages of online shopping **to the supermarket**.

.....

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..... [3]

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