

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

2359/01

Paper 3 (Foundation Tier)

Candidates answer on the Question Paper

OCR Supplied Materials:

None

Other Materials Required:

None

**Monday 28 June 2010
Afternoon**

Duration: 1 hour



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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MODIFIED LANGUAGE

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 Circle **two** features of multimedia presentations which would **not** be found in a word-processed document.

images

numbers

sound

tables

text

video

[2]

2 Circle **two** storage media.

bar-code reader

CD

graphics tablet

hard disk

OMR

touch screen

[2]

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

An icon

A motor

Presentation software

A touch screen

A typed instruction

..... is a feature of a graphical user interface.

..... is a feature of a command line interface.

..... is an output device used in computer-controlled systems.

..... is an input device which allows you to choose options from a menu.

..... is used to produce a slide show.

[5]

4 Tick **one** box in each row to show whether the check is a verification check or a validation check.

Task	Validation (✓)	Verification (✓)
Typing in data twice and comparing the two versions		
Using a check digit		
Using a range check		
Visually checking that data has been entered correctly		

[4]

5 Tick **one** box in each row to show whether the statement is true or false.

Statement	True (✓)	False (✓)
A firewall is a storage medium		
Buying on the internet has caused some high street shops to close		
Using passwords helps prevent unauthorised access to computer systems		
The Computer Misuse Act allows you to look at any data that an organisation might be keeping about you		
The Data Protection Act requires organisations to register with the Information Commissioner		

[5]

6 Tick **three** applications which use batch processing.

Application	✓
A computerised theatre booking system	
Printing payslips	
Processing cheques at a bank	
Processing electricity bills	
Purchasing an item at a POS terminal	
Withdrawing money from a bank cash machine (ATM)	

[3]

7 Draw **five** lines to match each task to the most suitable systems cycle stage.

Task
Interviewing users to find out what they think of the new system
Observing workers using the old system
Producing a user guide
Running the old system and the new system together
Specifying validation methods

Systems cycle stage
Analysis
Evaluation
Design
Documentation
Implementation

[5]

8 Describe a star network topology.
You may use a labelled diagram.

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

9 Tick **one** box in each row to show whether the activity 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]

10 Describe each of the following data collection methods. Give a use for each method.

OMR

.....

Use

.....

MICR

.....

Use

..... [4]

11 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 could be used for entering these details.

..... [1]

(ii) Give **two** reasons why this method is more useful 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 used 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

.....

Advantage 3

..... [3]

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

Effect 1.....

.....

Effect 2.....

.....

Effect 3.....

.....

Effect 4.....

..... [4]

12 Two types of network are a WAN and a LAN.
Give **two** characteristics of each type of network.

WAN

- 1
-
- 2
-

LAN

- 1
-
- 2
- [4]

13 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.

-
-
-
-
-
-
-
- [4]

10
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11
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