

Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

2359/01

**INFORMATION AND
COMMUNICATION TECHNOLOGY**

Paper 3 (Foundation Tier)

MONDAY 28 JUNE 2010: Afternoon

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 clearly in capital letters, your Centre Number and Candidate Number in the boxes on the first page.**
- **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.**
- **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.**

- 1 Circle TWO features of multimedia presentations, from the list of six below, which would NOT be found in a word-processed document.

images

numbers

sound

tables

text

video

[2]

- 2 Circle TWO storage media from the list of six below.

bar code reader

CD

graphics tablet

hard disk

OMR

touch screen

[2]

3 Choose ONE item from the list of five below to start each of the five sentences that follow.

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 in the list of six below, 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 below to the most suitable stage in the systems cycle.

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 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]

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

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 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 _____

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 _____

Effect 2 _____

Effect 3 _____

Effect 4 _____

[4]

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

WAN

1 _____

2 _____

LAN

1 _____

2 _____

_____ **[4]**

