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|-----------------------|--|----------------------|--|
| 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)

THURSDAY 16 JUNE 2011: 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, centre number and candidate number in the boxes on the first page. 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.**

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.**

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1 Circle TWO storage media used for moving data from one computer to another. [2]

CD-R

DVD

FIXED HARD DISK

GRAPH PLOTTER

MICR

MICROPHONE

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 _____

2 _____

3 _____

_____ **[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.

[4]

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

(a) Describe the advantages of online shopping TO THE CUSTOMER.

[3]

(b) Describe the advantages of online shopping TO THE SUPERMARKET.

[3]

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