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**GENERAL CERTIFICATE OF SECONDARY EDUCATION
INFORMATION AND
COMMUNICATION TECHNOLOGY**
ICT B (Higher Tier)

2380/02

Candidates answer on the question paper.

OCR supplied materials:

- Insert 2380/02/PRE (inserted)

Other materials required:

- Flowchart stencil
- Candidates pre-prepared materials

**Thursday 16 June 2011
Afternoon**

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number			
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INSTRUCTIONS TO CANDIDATES

- The insert will be found in the centre of this document.
- 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 **80**.
- No marks will be awarded for using brand names of software packages or hardware.
- This document consists of **12** pages. Any blank pages are indicated.

2

1 State the type of software that you would recommend for each of the tasks shown in the table below.

You should state the type of software that would perform the task most efficiently.

You may give the same answer for more than one task.

Do **not** use brand names.

Task	Type of software
To access a newsfeed	
To create a folded leaflet	
To develop a website	
To model numerical data on environmental emissions	
To send a SMS text message from a desktop computer	
To store membership data	

[6]

2 *Our Future* uses a digital application form. One of the users accidentally copies an older version of the database over the newest version.

Explain **two** methods that could be used to reduce the effect of this human error and prevent the error happening again.

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[4]

(b) One of the members of *Our Future* decides to walk across India to raise the profile of environmental issues.

Give **four** pieces of specialist ICT equipment, other than mobile phones, that could assist this member during the walk.

1

2

3

4 [4]

- 5 *Our Future* has asked you to redesign the structure of their website. The list below shows seven of the many pages currently available.

Existing pages:

- Welcome page
 - Join Us
 - Pollution
 - Hazardous Waste
 - Contact us page
 - The Ozone page
 - Melting Icecaps

Draw a diagram to show an appropriate structure for the website. You should also add **two** extra useful pages of your own.

Marks will be awarded for:

- a clear structure for the website
- inclusion of all the pages listed
- clarity of the links between pages
- addition of the two further useful pages.

Do **not** design the pages themselves.

6 The table below shows a variety of methods of data capture.

Draw lines to match each statement to the most suitable data capture method.

	Data logging
	Bar code reader
Used to input feedback to multiple-choice questions. Users put a simple mark in the box next to the chosen answer.	Answers
Used by banks to input cheque details.	Microchip reader
Used to collect information from the public about planned changes to the local road network.	MICR
Used to input information from a credit card when paying for petrol at a garage.	OCR
Used to gather weather data remotely.	OMR
Used to input information from a chemical container with a small label marked with a series of lines.	Questionnaires
	Sensors

[6]

7 *Our Future* runs a social networking site. New users need to register on the site.

(a) Before the new user can enter the registration screen they are given the following screen with a code to enter.

AW46Z3

Why is this code written in this way?

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..... [2]

Accounts require a password. It is important that they ensure that accounts are secure.

(b) Which **one** of these passwords is the most secure? Give reasons for your choice.

- A** Wednesday **B** My-password **C** HJK897E **D** Hjk897-e

Password chosen:

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..... [3]

The user is also asked to select a secret question and provided an answer to it.

Select a question:

What is your favourite colour?

What is the name of the first school you attended?

What is your favourite sport?

What is your mother's maiden name?

(d) Explain why new users are asked to do this.

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..... [2]

Our Future then sends the user a confirmation email asking them to activate their account.

(e) Give **one** reason for this.

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..... [1]

As an additional security measure *Our Future* asks the user for a mobile telephone number. An automated code is sent by text to their phone. The user must then enter this into the activation screen.

(f) Explain why this additional information is required.

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..... [3]

