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

**2380/02**

ICT B (Higher Tier)

Candidates answer on the question paper.

**OCR supplied materials:**

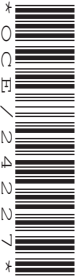
- Insert 2380/02/PRE (inserted)

**Other materials required:**

- Flowchart stencil
- Candidates pre-prepared materials

**Tuesday 18 January 2011  
Morning**

**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 **16** 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.

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 blog	
To create a poster	
To edit a digital photograph	
To model profit and loss	
To type a letter	
To view a website	

[6]

2 *Our Future* members could use each of the following technologies in their work to gather information about organisations that pollute the environment.

Describe how *Our Future* members could use each of the following technologies.

Blogs

.....  
.....  
.....  
..... [2]

Tweets

.....  
.....  
.....  
..... [2]

Chat forums

.....  
.....  
.....  
..... [2]

Video sharing websites

.....  
.....  
.....  
..... [2]

3 *Our Future* communicates with most of its members by the use of email and text messaging.

State **two** other electronic methods that could be used to communicate with members who have no email or mobile phone.

Method 1 .....

.....

Method 2 .....

..... [2]

4 When a letter is printed, the orientation could be Portrait or Landscape.

Use diagrams to show what is meant by Portrait and Landscape.

**Portrait**

**Landscape**



[2]







- 8 *Our Future* wants to automate its data entry procedures by developing a database where people can register their details online.

All details entered will be validated and may be verified.

The following fields will be used.

- Title
- Surname
- First Name
- House Number/Name
- Address One
- Address Two
- Postcode
- Mobile Telephone Number
- Email address
- Member of other environmental organisation (Y/N)

- (a) Explain how **verification** could be used on the 'Email address' field to ensure the data is correctly entered.

.....  
.....  
.....  
..... [2]

- (b) The Postcode field uses **validation**.

How could this field be validated?

.....  
.....  
.....  
.....  
..... [3]



(c) (i) Identify **one** existing field that would be the most appropriate as the key field and explain why.

.....  
.....  
.....  
..... [2]

(ii) Explain why it may be more appropriate to add a new field as a key field.

.....  
.....  
.....  
.....  
.....  
..... [3]

(d) Explain why data entered into the field 'Surname' should be verified.

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.....  
..... [2]

(e) Name **one** field where a drop-down list would be appropriate to choose the data to be entered and explain why.

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..... [3]

(f) Explain how typing in the postcode could trigger a system that helps the user enter data into other fields.

.....  
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.....  
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..... [3]

9 *Our Future* communicates with people around the world. Many different languages are used in different countries.

Discuss the benefits and drawbacks of using on-line translation software to help with communication between people with a common interest in the environment but who speak different languages.

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..... [6]

10 A member of *Our Future* uses a home network to access the internet. The network has a router that supports both wireless and cable connections.

(a) State **one** wireless technology that can be used to connect digital devices to the router.

.....  
..... [1]

(b) State **three** ways to prevent access to the router from an unauthorised computer.

1 .....  
.....  
2 .....  
.....  
3 .....  
..... [3]

(c) Explain the benefits of using a cable rather than a wireless connection when accessing video files or online games.

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..... [4]

**12**

**11** *Our Future* wants to design a blog page for its website.

In the space below, design the layout of a blog page.

You must annotate your page to give instructions to the developer.



**[6]**

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

Statement	True (✓)	False (✓)
A blog is a real time online conversation between many computer users		
Online discussion forums are designed to create online communities of people with similar interests		
When an email is sent via a browser, both people have to be online at the same time		
When an email is sent via a browser, it is saved on the sender's system		
To send an SMS, the receiver has to have their phone switched on		
When you take part in a chat, a record is automatically saved on your system		

[6]

**END OF QUESTION PAPER**

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15  
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