

**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 (inserted)

Other Materials Required:

- Flowchart stencil
- Candidates pre-prepared materials

**Monday 28 June 2010
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

- 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 **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 below.

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

Do not use brand names.

Task	Type of software
To store customer data for mail merged letters	
To develop a website	
To calculate cost savings	
To access a web log	
To produce colour separations for a leaflet	

[5]

2 EnviroMax have a company policy on how to use computers in an environmental way.

Under each heading give **two** statements for the company policy that would help protect the environment.

Company policy for staff using ICT

Statement 1
.....
.....

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

Company policy on computer settings

Statement 1
.....
.....

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

Company policy on hardware replacement

Statement 1
.....
.....

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

4 EnviroMax promotes the use of laptops rather than desk top computers because this reduces the effect on the environment.

(a) Give **one** reason why laptops are more environmentally friendly when in use compared to desk top computers.

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

(b) EnviroMax is an international company and conducts most of its meetings using video-conferencing facilities.

(i) State **two** benefits to the company of video-conferencing.

Benefit 1
.....
Benefit 2
..... [2]

(ii) State **two** limitations to the company of video-conferencing.

Limitation 1
.....
Limitation 2
..... [2]

5 EnviroMax use the internet for communication and for information publication.

(a) State **three** ways EnviroMax staff can communicate with each other using the internet. For each way give an example of how this would be useful to EnviroMax.

Way 1

.....

.....

Example

.....

Way 2

.....

.....

Example

.....

Way 3

.....

.....

Example

..... [6]

(b) State **two** ways EnviroMax staff can use the internet for publishing and retrieving information.

For each way give an example of how this would be useful to EnviroMax.

Way 1

.....

.....

Example

.....

Way 2

.....

.....

Example

..... [4]

(c) A student has found some information on the EnviroMax website.

What information should they give about the website in their bibliography?

.....

.....

.....

..... [2]

6 EnviroMax holds personal information about its customers.

(a) Describe **one** way a customer can request a copy of their personal data.

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

(b) State **two** checks the company must carry out before it issues the personal data.

Check 1
.....
Check 2
..... [2]

(c) Why might you have to pay for a copy of your personal data?

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

7 EnviroMax advises its business customers to buy computer equipment that will last a long time.

State **two** reasons why the lifespan of computer equipment is important.

Reason 1
.....
Reason 2
..... [2]

8 EnviroMax is conducting a survey of small businesses to explore computer recycling.

In the space provided design a web capture form for the EnviroMax website.

The following data is required.

- Name
- Number of computers in the business
- Age of computers
- Type of monitors used
- Average number of hours used per day

You should also add **two** questions of your own.

[8]

- 9 EnviroMax is helping a mail order business customer, TravelMate, to automate its data entry procedures.

TravelMate will replace a manual system with a web-based ordering system. All order details entered by its customers will be validated and may be verified.

The following fields are needed:

- Title
- Surname
- HouseNumber/Name
- AddressOne
- AddressTwo
- Postcode
- ProductCode
- ProductDescription
- ProductPrice
- Quantity

- (a) Explain what is meant by the term verification.

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

- (b) Explain what is meant by the term validation.

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

- (c) Explain how data entered into the field 'Quantity' should be validated.

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

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

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

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

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

(f) (i) Name a field where data entered by the customer could trigger automatic entry of data into two other fields.

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

(ii) Name **two** fields where the data would then appear automatically.

Field 1
Field 2 [2]

(iii) Give **two** benefits of automatic data entry.

Benefit 1
.....
Benefit 2
..... [2]

10 EnviroMax complies with the Data Protection Act.

(a) State **two** purposes of data protection legislation.

Purpose 1

.....

Purpose 2

..... [2]

(b) What is meant by the following terms?

(i) Data Subject

.....

.....

.....

..... [2]

(ii) Data Controller

.....

.....

.....

..... [2]

(c) State **two** of the main roles of the Information Commissioner.

Role 1

.....

Role 2

..... [2]

11 The EnviroMax website uses a menu driven interface on a black screen.

(a) Describe the environmental benefits of using a black screen.

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

(b) Explain **two** benefits of a menu driven interface for the users of the website.

Benefit 1
.....
.....
Benefit 2
.....
..... [2]

(c) Describe another type of user interface and give an example of its use.

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

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