



**GENERAL CERTIFICATE OF SECONDARY EDUCATION
INFORMATION AND COMMUNICATION
TECHNOLOGY
Paper 1 (Higher Tier)**

2357/02

Candidates answer on the question paper.
OCR supplied materials:
None
Other materials required:
None

**Monday 10 January 2011
Afternoon**

Duration: 1 hour 15 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- 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.

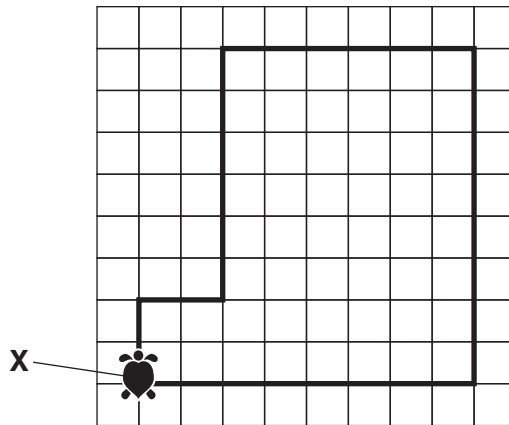
INFORMATION FOR CANDIDATES

- 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 **60**.
- 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.

1 The table below shows instructions used to move a turtle on a grid.

<i>INSTRUCTION</i>	<i>SHORT INSTRUCTION</i>	<i>MEANING</i>
REPEAT n []	REPEAT n []	Repeat the instructions in square brackets n times
FORWARD n	FD n	Move n units forwards
BACKWARD n	BK n	Move n units backwards
LEFT n	LT n	Turn left n degrees
RIGHT n	RT n	Turn right n degrees

Using the instructions given in the table, write down the instructions that would be needed to make the turtle start at **X** and move around this shape and end up back as it started.



Write your answer below, the first instruction has been done for you:

FD 2

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..... [6]

2 Identify **two** methods that might be used to input data to set a burglar alarm system and give **one** benefit of each method.

Method 1
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Benefit
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Method 2
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Benefit
..... [4]

- (b) (i) Give **two** advantages of using a computer system to collect the weather data from the sensors rather than collecting it manually.

Advantage 1

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Advantage 2

..... [2]

- (ii) Give **two** disadvantages of using a computer system to collect the data about the weather from the sensors rather than collecting it manually.

Disadvantage 1

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Disadvantage 2

..... [2]

- (c) Describe how computer software could be used to analyse the collected data ready for use in a slideshow presentation.

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..... [4]

5 A company uses a website to enable it to sell its goods online. The website shows images and descriptions of goods for sale.

(a) Describe **three** other features of the website that enable customers to buy the goods.

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(b) Discuss the advantages and disadvantages to customers of buying the goods online.

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..... [6]

6 Daphne’s car rental company uses a database to store details of its vehicles.

(a) The company has purchased a new fleet of cars. Daphne walks around the parking area and manually collects data about the new vehicles so that she can enter the data into the database.

Describe how she would manually collect the data about the vehicles so that it is suitable for entry into the database.

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..... [4]

(b) Identify **two** methods that are used to check the data being entered into the database.

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2 [2]

(c) Describe **two** features of database software that might be used to assist customers in choosing a suitable car to rent.

Feature 1
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..... [4]

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