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RECOGNISING ACHIEVEMENT

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GENERAL CERTIFICATE OF SECONDARY EDUCATION

INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 1 (Higher Tier)

2357/02
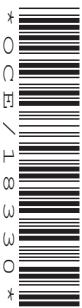
Monday 11 January 2010
Afternoon

Duration: 1 hour 15 minutes

Candidate Forename		Candidate Surname	

Centre Number						Candidate Number				

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.

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 A teacher has written down some of the rules for a school computer room.

Computer room rules

Rule 1
Tampering with any of the wires attached to a computer is forbidden.

Rule 2
All coats and bags must be stored at the front of the room.

Rule 3
You must not use your own floppy disks or USB flash memory sticks in these computers.

Rule 4
You are not allowed to use these computers to access emails from outside the school.

Rule 5
You are not allowed to use another person's user ID and password to log onto a computer.

Rule 6
You are not allowed to eat or drink in this room.

For each of rules 1 to 5, give **one** reason why it should be obeyed by users of the computers in the room. Your reason must be different for each rule.

Rule 1 ....

....

Rule 2...

....

Rule 3...

....

Rule 4...

....

Rule 5...

.... **[5]**

2 At 12 o'clock each day, a computer system records the wind speed measured by a rooftop anemometer.

interface
box

rooftop
anemometer
measuring wind
speed
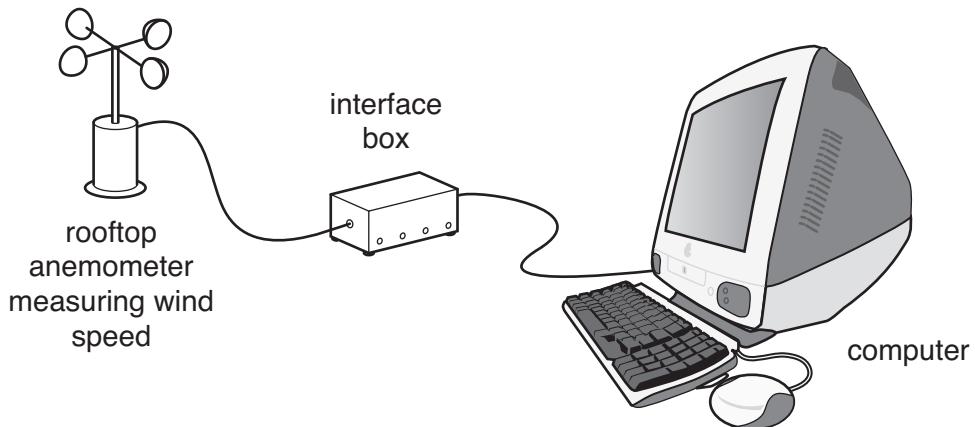
computer

(a) Give **one** advantage of using a computer system in this way rather than collecting the data manually.

....

.... **[1]**

(b) The anemometer has to be connected to an interface box rather than directly to the computer.

Why is this necessary?

....

....

....

.... **[2]**

Turn over

The results of one week's monitoring are imported into this spreadsheet.

	A	B	C
1	**Day of the week**	**Wind speed (Km/h)**	
2	Monday	16.4	
3	Tuesday	18.3	
4	Wednesday	12.1	
5	Thursday	13.2	
6	Friday	15.4	
7	Saturday	14.7	
8	Sunday	15.9	
9			
10	Average (Km/h)		
11			
12			

The following chart has been made from the data in the spreadsheet.
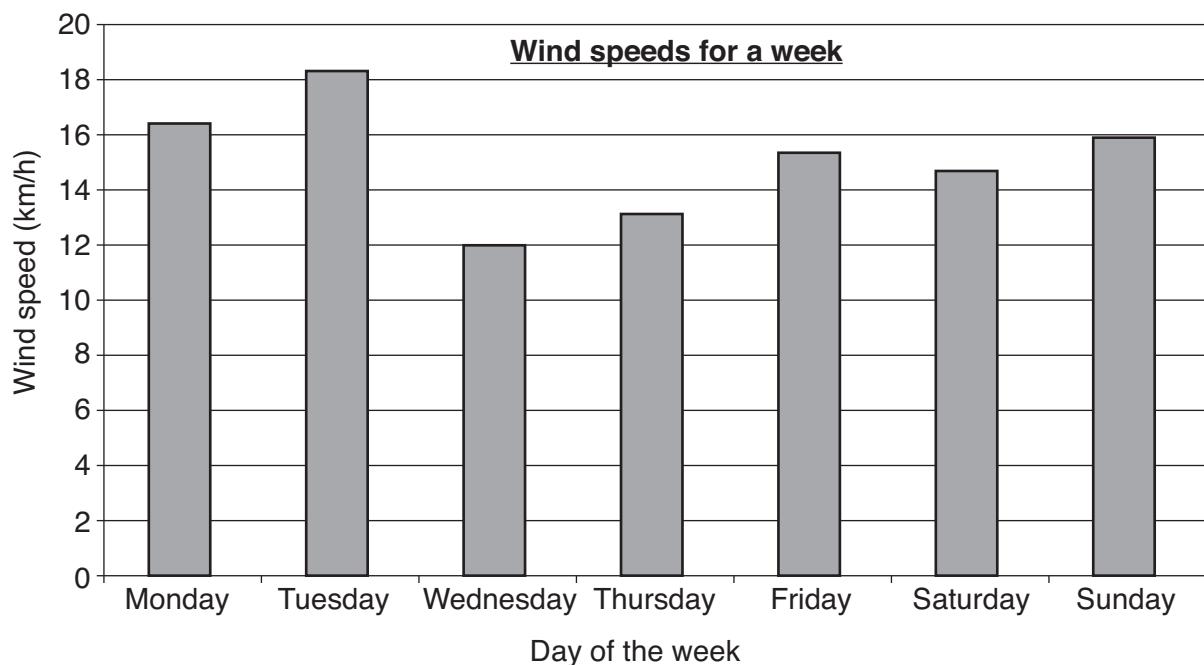
(c) Describe how spreadsheet software could have been used to make this chart from the data.

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.... **[4]**

3 Rinzen uses her laptop rather than her desktop computer for her school work.

(a) Give **one** advantage of using her laptop.

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.... **[1]**

(b) Give **two** disadvantages of using her laptop.

Disadvantage 1 ....

....

Disadvantage 2 ....

.... **[2]**

4 Graham is creating a slide show presentation of photographs of his family.

Give **one** hardware device Graham could use to import a photograph into his computer and how he could use it.

Device ....

How the image could be imported into his computer.

....

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.... **[4]**

5 Email messages are cheaper to send and can arrive at the recipient quicker than ordinary post.

(a) State **four** other advantages of using email.

Advantage 1 ....

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Advantage 2 ....

....

Advantage 3 ....

....

Advantage 4 ....

.... **[4]**

(b) State **one** disadvantage of using email.

....

.... **[1]**

6 Many young people use chat rooms on the internet.

Give **four** precautions that young people should take when using a chat room.

Precaution 1 ....

....

Precaution 2 ....

....

Precaution 3 ....

....

Precaution 4 ....

.... **[4]**

7 Tracey wants to use the internet to find information about mobile phones that have cameras and can play music files.

Explain how Tracey could use a search engine on the internet to find this information.

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....

....

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.... **[4]**

Turn over

8 A company allows its employees to work away from their main office.

(a) Explain how ICT has made this possible.

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.... **[6]**

(b) Describe **two** disadvantages to the company of allowing its employees to work away from the main office.

Disadvantage 1 ....

....

Disadvantage 2 ....

.... **[4]**

9 Students in a school have been issued with electronic identity cards. Each card holds the student's details on a microchip and can be used to pay for meals in the school canteen.

Describe the advantages to the school and students of the use of the cards in the canteen.

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.... **[4]**

Turn over for next question

Turn over

10 A company selling mobile phones in the UK has its customer support centre in another country.

(a) Describe the advantages to the **company** of having the support centre in a different country.

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.... **[4]**

(b) Discuss the implications to the **customer** of having the support centre in a different country.

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.... **[5]**

(c) The company has decided that in the future, all of its customer support will be through its website.

Discuss the effects this decision will have on its wide range of customers.

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.... **[5]**

PLEASE DO NOT WRITE ON THIS PAGE