

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

2357/02

Paper 1 (Higher Tier)

Candidates answer on the Question Paper

OCR Supplied Materials:

None

Other Materials Required:

None

**Monday 11 January 2010
Afternoon**

Duration: 1 hour 15 minutes



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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MODIFIED LANGUAGE

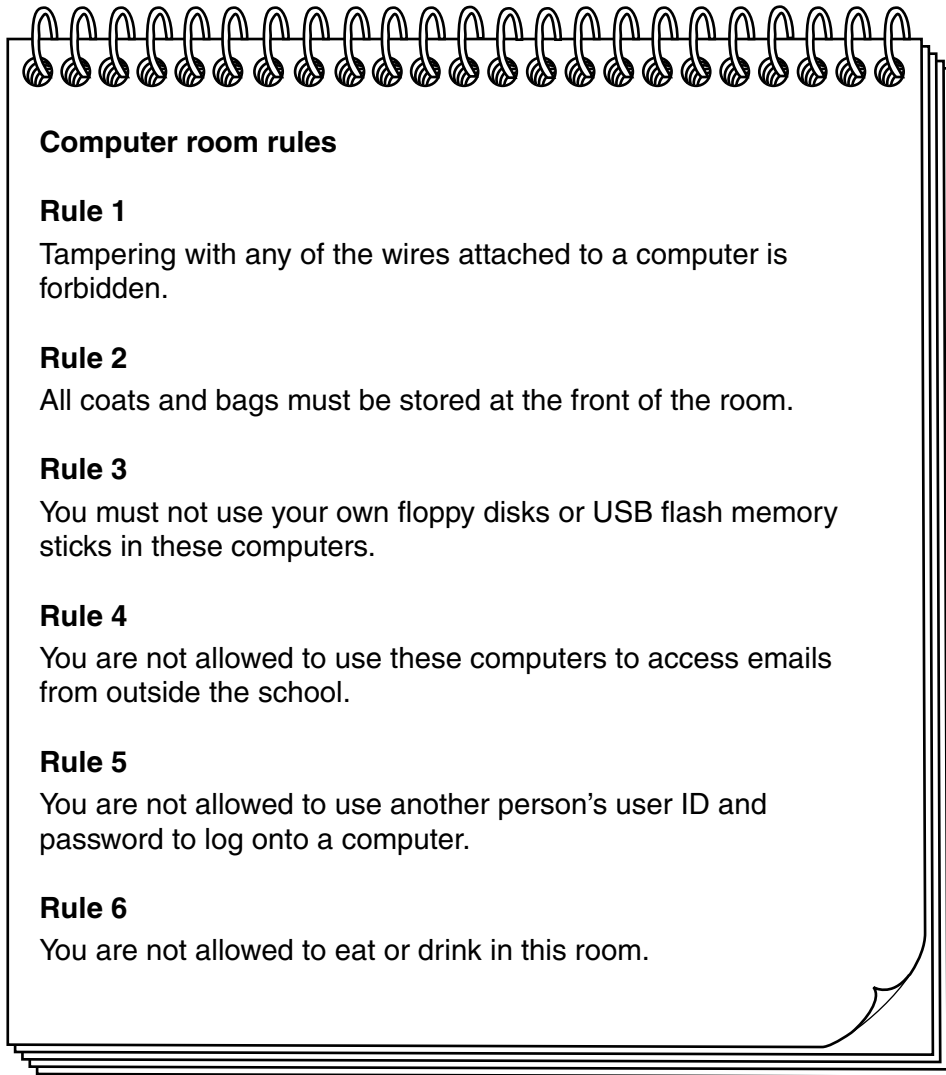
INSTRUCTIONS TO CANDIDATES

- 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.



Give **one** reason why each of rules 1 to 5 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.....

.....

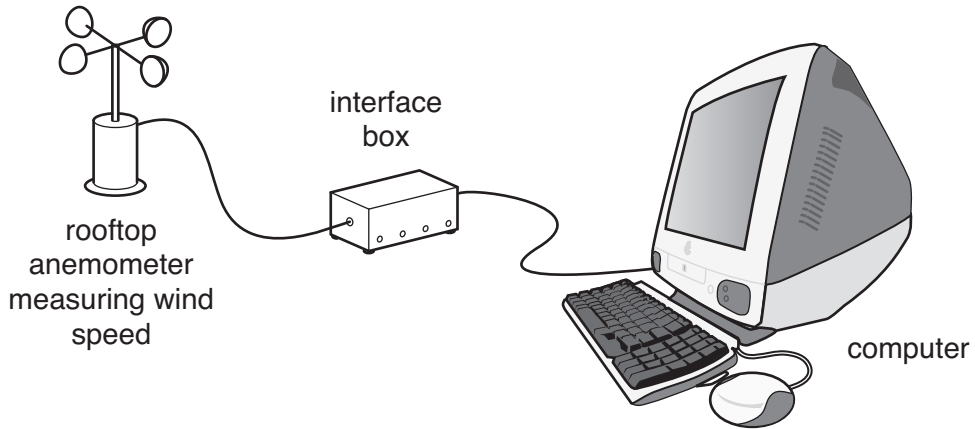
Rule 4.....

.....

Rule 5.....

..... [5]

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



(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.

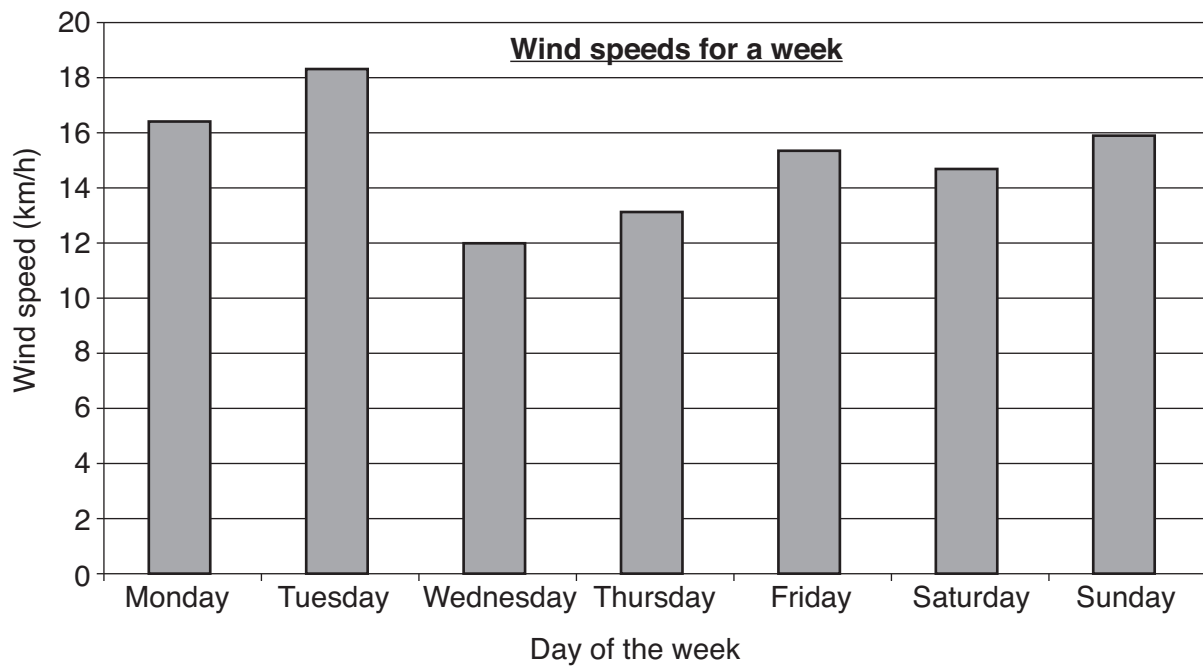
Why is this necessary?

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

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 for her school work rather than her desktop computer.

(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

.....

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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..... [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

- (c) The company decides 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]

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