

Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

2357/02

**INFORMATION AND COMMUNICATION
TECHNOLOGY**

Paper 1 (Higher Tier)

MONDAY 11 JANUARY 2010: Afternoon

DURATION: 1 hour 15 minutes

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the Question Paper

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

- **Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes on the first page.**
- **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.**
- **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.**

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- 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 _____

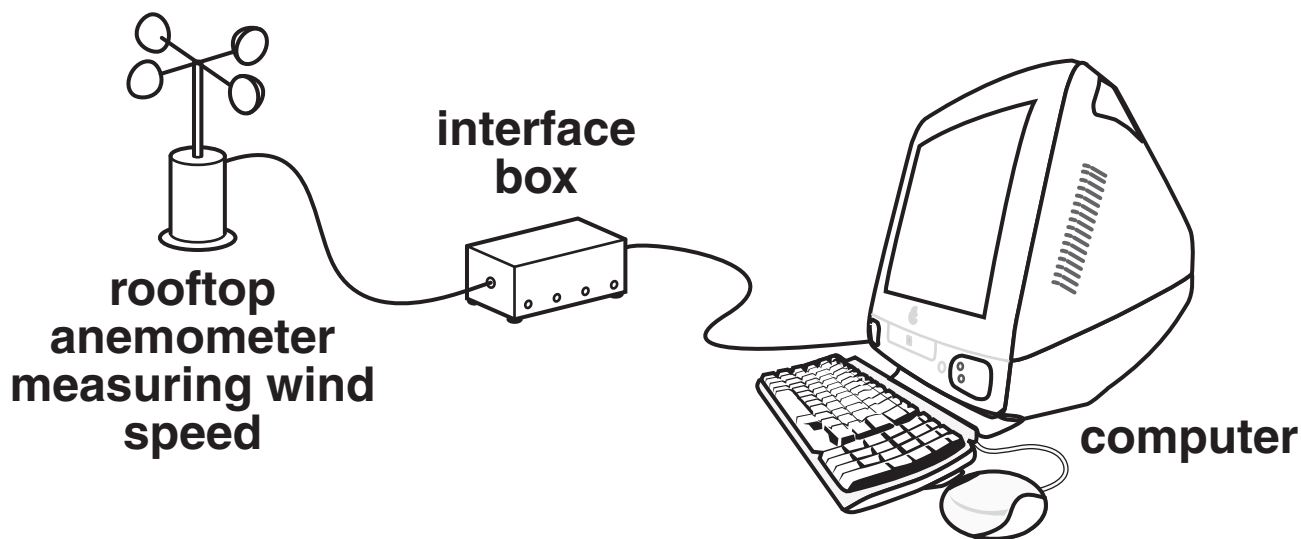
Rule 3 _____

Rule 4 _____

Rule 5 _____

_____ [5]

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



(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?

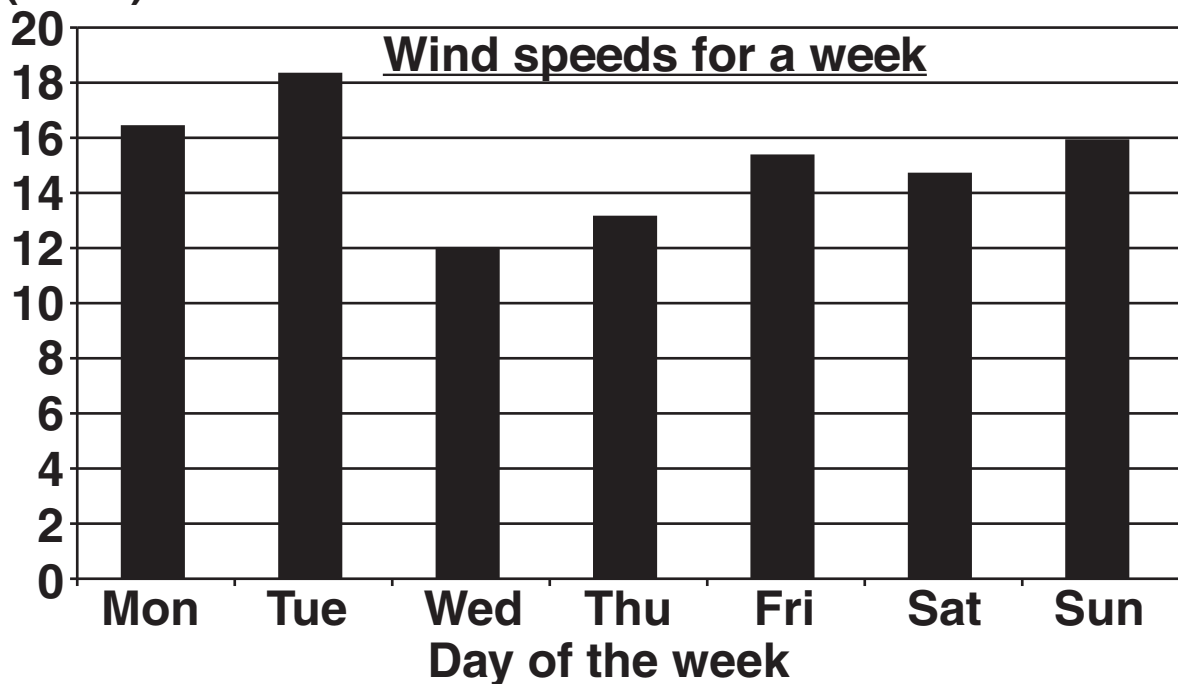
[2]

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

	A	B
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.

Wind speed
(km/h)



(c) Describe how spreadsheet software could have been used to make this chart from the data.

[4]

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

(a) Give ONE advantage of using her laptop.

_____ [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.

[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.

[4]

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

(a) Explain how ICT has made this possible.

[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.

[4]

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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.

[4]

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

[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.

[5]

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