

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

Paper 1 (Higher Tier)

TUESDAY 20 MAY 2008

Afternoon
 Time: 1 hour 15 minutes

Candidates answer on the question paper

Additional materials: No additional materials are required



Candidate
Forename

Candidate
Surname

Centre
Number

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Candidate
Number

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INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or 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 for each question is given in brackets [] at the end of each question or part question.
- No marks will be awarded for using brand names of software packages or hardware.
- The total number of marks for this paper is **60**.

FOR EXAMINER'S USE

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10	
11	
12	
TOTAL	

This document consists of **10** printed pages and **2** blank pages.

1 Complete the table below to show the process used to carry out each of the tasks shown.

Task	Process
Finding and correcting typing errors in the text of a letter.	
Reading through a document to look for errors and omissions.	
Stopping unreasonable data being entered into a database.	
Copying a formula from one cell of a spreadsheet into many other cells.	

[4]

2 Ruth is organising the annual school play and keeps a database of the cast details to show when they are available for rehearsals. Her database is shown below.

Forename	Surname	Gender	Form	Year Group	Available
Jaswinder	Sidhu	F	S	10	Tuesday
Imran	Khan	M	U	10	Wednesday
Colette	Jones	F	S	9	Tuesday
Joanne	Smith	F	T	10	Monday
Paul	Charlton	M	W	11	Tuesday

(a) Ruth has used M and F instead of Male and Female in her database.

Give **two** reasons why she has done this.

Reason 1

.....

Reason 2

..... [2]

(b) When Ruth entered the cast details into her database, she verified them.

(i) Give **one** way that Ruth could verify her data.

.....

..... [1]

(ii) Why does Ruth verify her data?

.....

..... [1]

(c) Ruth sorts the data into ascending order of year group.

Which person now appears at the top of the list?

..... [1]

(d) Ruth uses the following query on the database.

Form = S OR Form = U

How many students does she find?

..... [1]

(e) Ruth wants to view the details of the girls in Year 9 who are available for rehearsal on Tuesdays.

Write a suitable query that she could use to find these in her database.

.....
..... [4]

(f) Describe **three** ways that Ruth could use ICT to advertise the play.

Way 1
.....
.....
.....

Way 2
.....
.....
.....

Way 3
.....
.....
..... [6]

3 Photo-editing software can be used to alter photographs.

Explain why these alterations may **not** be appropriate.

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

4 (a) Give **two** advantages of using a flight simulator for the training of pilots.

Advantage 1
.....
Advantage 2
..... [2]

(b) Give **one** disadvantage of using a flight simulator for the training of pilots.

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

5 What is the purpose of a modem?

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

6 Web pages often contain hyperlinks.

What is a hyperlink?

..... [1]

7 A school has provided laptops for its students. They can use them at school or at home.

(a) Give **two** advantages to the students of using these laptops for their school work.

Advantage 1

.....

Advantage 2

..... [2]

(b) State **two** problems that may arise from providing the students with these laptops.

Problem 1

.....

Problem 2

..... [2]

8 ICT allows people to work from home.

Discuss the advantages and disadvantages of using ICT to work from home.

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..... [6]

9 Describe how micro-processor controlled devices can be used to make a home safer to live in.

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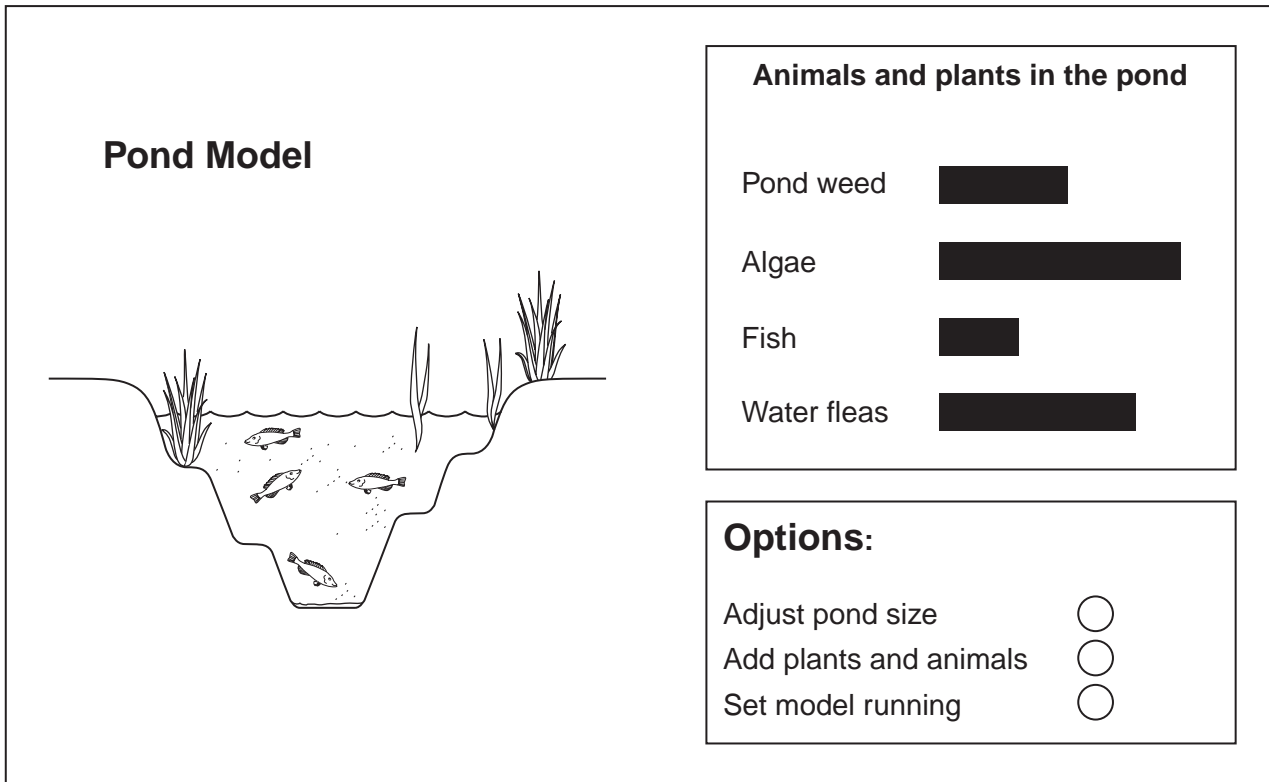
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..... [5]

10 The screenshot below is from a computer model of the numbers of plants and animals living in a pond over a period of time.



Discuss the advantages and disadvantages of using computer models.

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..... [6]

10
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