



H

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

2357/02

Paper 1 (Higher Tier)

**Monday 13 June 2011
Afternoon**

Duration: 1 hour 15 minutes

Candidates answer on the question paper.

OCR supplied materials:
None

Other materials required:
None



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 Brian uses a database to store some information about himself and his friends. Part of the database is shown here.

ID no.	Name	Gender	Weight (Kg)	Height (m)	Eye Colour	Hair Colour
1	Hardeep	M	77	1.65	brown	brown
2	Rowena	F	65	1.60	brown	brown
3	Sue	F	64	1.45	blue	blonde
4	Steve	M	71	1.88	brown	brown
5	Mike	M	68	1.89	brown	brown
6	Andy	M	70	1.75	brown	grey
7	Roger	M	69	1.74	brown	brown
8	Andrew	M	77	1.84	brown	brown
9	Chris	M	64	1.70	brown	black
10	Carole	F	66	1.66	blue	brown
11	Kia	F	61	1.60	brown	brown
12	Brian	M	75	1.69	blue-green	grey
13	Norman	M	69	1.70	brown	brown
14	Dave	M	71	1.85	brown	black
15	Baljinder	M	87	1.54	brown	brown
16	Barry	M	70	1.60	brown	black
17	Asif	M	65	1.65	brown	black
18	Aysha	F	66	1.45	brown	brown
19	Alan	M	65	1.60	brown	brown
20	Nic	M	72	1.73	brown	brown

(a) Brian uses his database software to show the list with the females first, in alphabetical order of name.

Explain how he does this.

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..... [4]

- (b) Brian searches his database.
Write a suitable query to find all of his friends who are exactly 1.6m tall, have blue eyes and weigh less than 70 Kg.

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..... [4]

- (c) Identify the field in Brian's database that would be suitable as a key field and state why it is suitable.

Field

Reason.....

..... [2]

- (d) When the data was entered into the database, it was verified and validated.

- (i) Why is verification carried out?

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..... [2]

- (ii) Give **one** method in which Brian would verify his data entries.

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..... [1]

- (iii) Give **one** reason why validation checks are made on the data as it is entered.

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..... [1]

- (iv) Describe **one** validation check that could be made as data is entered into the height field.

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

2 The pictures show three different types of printer.



colour inkjet printer



laser printer



dot matrix printer

(a) Identify a workplace where the dot matrix printer would be suitable for use and give a reason.

Workplace

Reason [2]

(b) Give **two** reasons why colour inkjet printers are often used in homes.

Reason 1

.....

Reason 2

..... [2]

(c) State **one** advantage of using a laser printer.

.....

..... [1]

- 4 Give **two** advantages and **two** disadvantages of using computer simulations for training people to be aircraft pilots.

Advantage 1

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Advantage 2

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Disadvantage 1

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Disadvantage 2

..... [4]

- 5 Discuss the benefits and drawbacks of using the internet as a source of information when researching a topic for homework.

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..... [6]

9 Spreadsheets can be used for data modelling.
Describe how a spreadsheet can be used in this way.

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..... [6]

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