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

**2357/02**

**TECHNOLOGY**  
Paper 1 (Higher Tier)

Candidates answer on the question paper.

**OCR supplied materials:**  
None

**Other materials required:**  
None

**Monday 13 June 2011  
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, 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.



(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.

.....  
..... [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) The data was verified and validated when it was entered into the database.

(i) Why is verification carried out?

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

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

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

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

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

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

.....  
.....  
.....  
..... [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 .....

.....

Advantage 2 .....

.....

Disadvantage 1 .....

.....

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]









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