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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 13 JUNE 2011: 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, centre number and candidate number in the boxes on the first page. 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.**

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

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

Explain how he does this.

[4]

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

(b) Brian searches his database.

Write a suitable query to find all of his friends who are exactly 1.6 m 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) When the data was entered into the database, it was verified and validated.

(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]

3 The table shows the populations of some European cities.

CITY	POPULATION
Paris	2 100 000
London	7 100 000
Rome	2 650 000
Vienna	1 500 000
Madrid	2 800 000

The data from the table is imported into a computer system for displaying in a Geography presentation.

Describe how this data could be prepared using computer software ready for use in the Geography presentation.

[4]

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]**

8 Many homes now have computers connected in a network.

Discuss the advantages and disadvantages of connecting home computers in a network.

[6]

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