

Candidate Name	Centre Number	Candidate Number
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OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

2359/01

PAPER 3 (FOUNDATION TIER)

Thursday **20 JANUARY 2005** Afternoon 1 hour

Candidates answer on the question paper.
 No additional materials are required.

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page.
 Answer **all** the questions.
 Write your answers, in blue or black ink, in the spaces on the question paper.

INFORMATION FOR CANDIDATES

The number of marks 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	
TOTAL	

This question paper consists of 9 printed pages and 3 blank pages.

Answer **all** questions.

1 Underline **two** data collection devices.

CD-R

OCR

Zip drive

Monitor

Printer

Light sensor

[2]

2 Below are five statements. State whether each statement is True or False.

	True or False
A touch screen is necessary on home computers	
MICR is used in banking	
The data on a DVD may be changed	
Supermarkets use bar-code readers	
ROM is a volatile storage medium	

[5]

3 A computer company is introducing computer-controlled robots into its production line. Give **two** advantages to the company of making this change.

Advantage 1

.....

Advantage 2

.....[2]

4 CD-ROM, floppy disk and hard disk drives are some of the storage devices used with computer systems.

State **two** other types of storage device.

Device 1

Device 2 [2]

5 Part of a database is shown below.

Group/Singer	Title	Type	Year of release	Cost
The Pogues	Express	V	1987	£5.99
The Carpenters	Their Greatest Hits	CD	1990	£11.99
Mary Chapin-Carpenter	Shoot Straight in the Dark	CD	1994	£12.99
Pink Floyd	Dark Side of the Moon	V	1985	£7.00
The Beatles	White Album	T	1983	£4.95
Elton John	Greatest Hits	CD	1999	£13.99

(a) Give **two** validation checks that could be applied when entering data into the 'Group/Singer' field.

Check 1

Check 2 [2]

(b) Give the name of the data type used in the 'Year of release' field.

..... [1]

(c) Give **two** reasons why the data in the 'Type' field is coded.

Reason 1

.....

Reason 2

..... [2]

6 A chain of shops wants to start selling goods over the Internet.
State **two** advantages and **two** disadvantages to the company of doing this.

Advantage 1

.....

Advantage 2

.....

Disadvantage 1

.....

Disadvantage 2

..... [4]

7 Give **four** benefits of using a graphical user interface (GUI) rather than a command line interface.

Benefit 1

.....

Benefit 2

.....

Benefit 3

.....

Benefit 4

.....[4]

8 A school is to introduce a new, computerised registration system. One method of introduction of the new system is by phased implementation. Give **two** other methods that the school could use.

Method 1

Method 2[2]

9 Below is part of an Internet-based encyclopaedia.



(a) It is possible to store a list of websites for future use.
Explain how you would include this website in your list.

.....

.....

.....

.....[2]

(b) Give **four** reasons why a publisher might choose to publish an Internet-based encyclopaedia rather than a paper-based one.

Reason 1

.....

Reason 2

.....

Reason 3

.....

Reason 4

.....[4]

10 When logging on to an Internet Service Provider (ISP) users are required to enter a user name and a password.

(a) Give the purpose of a user name.

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

(b) Give the purpose of a password.

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

11 The use of mobile phones to send text messages rather than telephoning is common in many areas of the world.

(a) Describe **two** advantages of using a text message rather than telephoning to arrange a meeting.

Advantage 1
.....

Advantage 2
.....[2]

(b) Describe **two** disadvantages of using a text message rather than telephoning to arrange a meeting.

Disadvantage 1
.....

Disadvantage 2
.....[2]

12 Simran has a CD-writer, a hard disk drive, and a floppy disk drive in her computer.

(a) State **two** advantages of using a floppy disk to store a single word-processed document.

Advantage 1

.....

Advantage 2

.....[2]

(b) (i) Which device on her computer would Simran use to create a backup copy of her many music files?

.....[1]

(ii) Explain why this device is suitable.

.....

.....[2]

13 (a) Describe what encrypted data is.

.....

.....

.....

.....[2]

(b) Explain why it is sometimes advisable to encrypt data.

.....

.....


.....

.....[2]

- 14 A large library has received a number of complaints about its selection of books, and the poor service provided by its staff. The Head Librarian decides to conduct a survey of the library's readers and enter the data collected into a computer.

Anytown Library Survey

What is your name? What is your age?
 Where do you live?
 Do you like the selection of books we have?
 Do you think our staff are friendly and helpful?



The Head Librarian is not satisfied that the data capture form above would provide him with the information he wants.

State **two** changes you would make to the form to enable the required information to be collected and give a reason for each change.

Change 1

Reason

.....

.....

Change 2

Reason

.....

.....[4]

15 Developments in ICT have allowed many companies to move their call centres from the United Kingdom to developing countries.

(a) Explain **one** reason they would want to do this.

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

(b) Give **two** problems that the company might encounter due to this change.

Problem 1
.....
Problem 2
.....[2]

16 State **three** of the principles contained in the Data Protection Act.

Principle 1
.....
Principle 2
.....
Principle 3
.....[3]

17 The manager of a local cinema has employed a systems analyst to update the present administration system.

Give **two** methods the analyst might use to collect data about the present system.

Method 1
Method 2[2]

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