

Candidate Name	Centre Number	Candidate Number



OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

2357/01

PAPER 1 (FOUNDATION TIER)

Monday **23 MAY 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	
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	

This question paper consists of 10 printed pages and 2 blank pages.

Answer all questions.

- 1 Imran is using his computer system to make a multimedia presentation. He has several tasks to do.



- (a) Tick (✓) one box in each row to show which is the best piece of hardware to use for each task shown.

Task	Scanner	Mouse	Keyboard	Digital camera
Typing page titles				
Choosing colours from a menu				
Inputting a printed colour picture to the computer				
Obtaining original photographs of a school play				

[4]

- (b) He wants his presentation to use sounds.
Identify one output device that he must have.

.....[1]

- 2 (a) Tick (✓) **one** box in each row that best describes the storage media shown below.

	Has the fastest access time	Portable but has a small storage capacity	Portable with a large storage capacity	Suitable for recording very large video files
RAM				
CD-ROM				
Floppy disk				
120 GByte hard disk				

[4]

- (b) Tick (✓) **one** box in each row that best describes each hardware device shown below.

	Input device	Output device	Both
Bar-code reader			
Touch screen			
Motor			

[3]

- 3 (a) A microprocessor is used to control traffic lights at pedestrian crossings. Here is a sequence of some of the instructions to the microprocessor. They are in the wrong order.

Number	Instruction
1	Turn WALK sign OFF
2	Start sequence when BUTTON PRESSED by pedestrian
3	Turn WALK sign ON
4	Turn WAIT sign OFF
5	Cross NOW beeper SOUNDS
6	Turn RED traffic light ON to stop traffic
7	Turn WAIT sign ON

Write down the correct order of the instructions for when a pedestrian presses the control box button. The first one is done for you.

Number
2

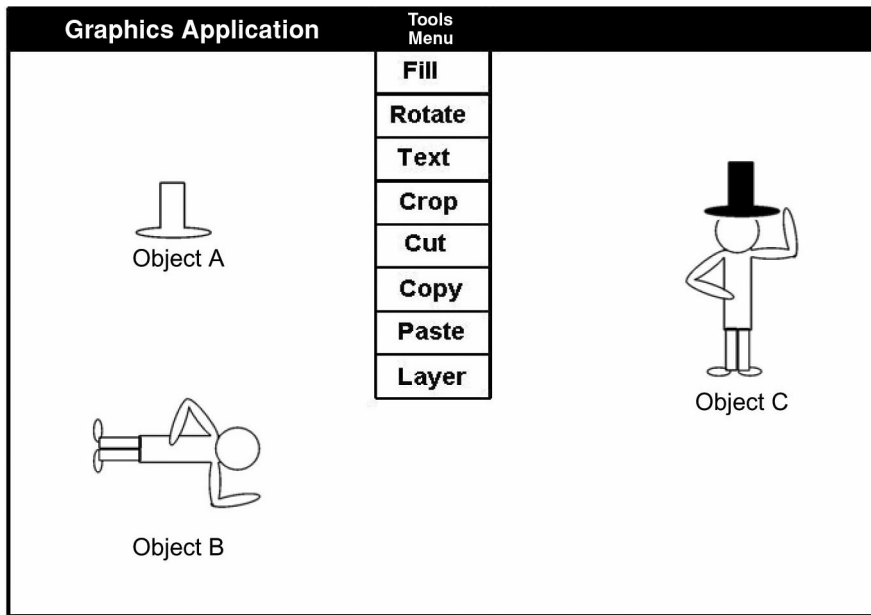
[3]

- (b) Identify **two** labour-saving devices containing microprocessors that are used in the home.

Device 1

Device 2 [2]

- 4 Suzi uses a graphics package to alter some clipart for use in a presentation. She takes two objects A and B, alters them and makes a new object C.



- (a) Which graphics tool from the menu has she used to make object A completely black for use in object C?

.....[1]

- (b) Which graphics tool from the menu has she used to turn object B upright?

.....[1]

- (c) Which graphics tool from the menu has she used to place object A on top of object B to make object C?

.....[1]

- (d) Give **two** reasons why she would choose to use clipart rather than draw her own pictures.

Reason 1

Reason 2[2]

- (e) She needs help using some of the features of the software. Identify **three** ways in which she could get help.

Way 1

Way 2

Way 3[3]

- (f) She keeps a backup of her work.
Give **one** situation when the backup would be needed.

.....[1]

- (g) She tries to use floppy disks for her backups.
Give **two** reasons why using floppy disks may not be appropriate.

Reason 1

Reason 2[2]

- 5 A car sales showroom keeps a database of its stock. The table below shows part of the database.

Car stock code	Colour	Type of car	Year of manufacture	Price	Sold
AC7E4	Blue	Estate	1998	£4,000.00	Yes
AC7E5	Red	Saloon	1997	£3,599.00	No
AC7E6	Blue	Hatchback	1999	£6,000.00	Yes
AC7E7	Green	Estate	2000	£8,000.00	No
AC7E8	Blue	Saloon	2001	£9,500.00	Yes
AC7E9	Silver	Hatchback	1996	£4,500.00	Yes
AE7E10	Grey	Convertible	2004	£14,000.00	Yes

- (a) How many fields are shown in the table?

.....[1]

- (b) How many records are shown in the table?

.....[1]

- (c) When the database was designed, each field was given a field type.
Tick (✓) **one** box in each row to show the most suitable field type for each of the fields.

Field name	Field type chosen		
	Boolean	Alphanumeric	Numeric
Price			
Sold			
Car stock code			
Type of car			

[4]

(d) Which field would be most suitable as a key field?

.....[1]

(e) The data in the table could be sorted into ascending order of Year of manufacture. What is the price of the car that would appear at the top of the table?

.....[1]

(f) The salesperson searches the data in the table for cars using this query:

Colour = Blue OR Type of car = Saloon

How many cars does he find?

.....[1]

6 A journalist has a desktop computer and a palmtop computer.

(a) Give **three** advantages of the palmtop.

Advantage 1

.....

Advantage 2

.....

Advantage 3

.....[3]

(b) In the office she types reports and presents them as multimedia presentations. Give **two** features of the desktop computer that make it more suitable than the palmtop computer for these tasks.

Feature 1

Feature 2[2]

7 This is a spreadsheet of the money that Kathryn has spent in one week.

	A	B	C	D
1			<u>Cost</u>	<u>Totals</u>
2	<u>Travel</u>			
3	Bus fares to school		7.5	
4	Bus fares to home		7.5	
5	<i>Total bus fares</i>			15
6				
7				
8	<u>Food and drink</u>			
9	Drinks		10.80	
10	Chocolate bars		4.5	
11	Sandwiches		3.75	
12	Packets of crisps		2.5	
13	<i>Total food and drink costs</i>			21.55
14				
15	<u>Total Spent</u>			
16				

(a) Identify the cell that gives the total bus fares.

.....[1]

(b) (i) Give **two** ways that the amounts shown in columns C and D could be made easier to understand.

Way 1

Way 2[2]

(ii) Describe how this could be done.

.....

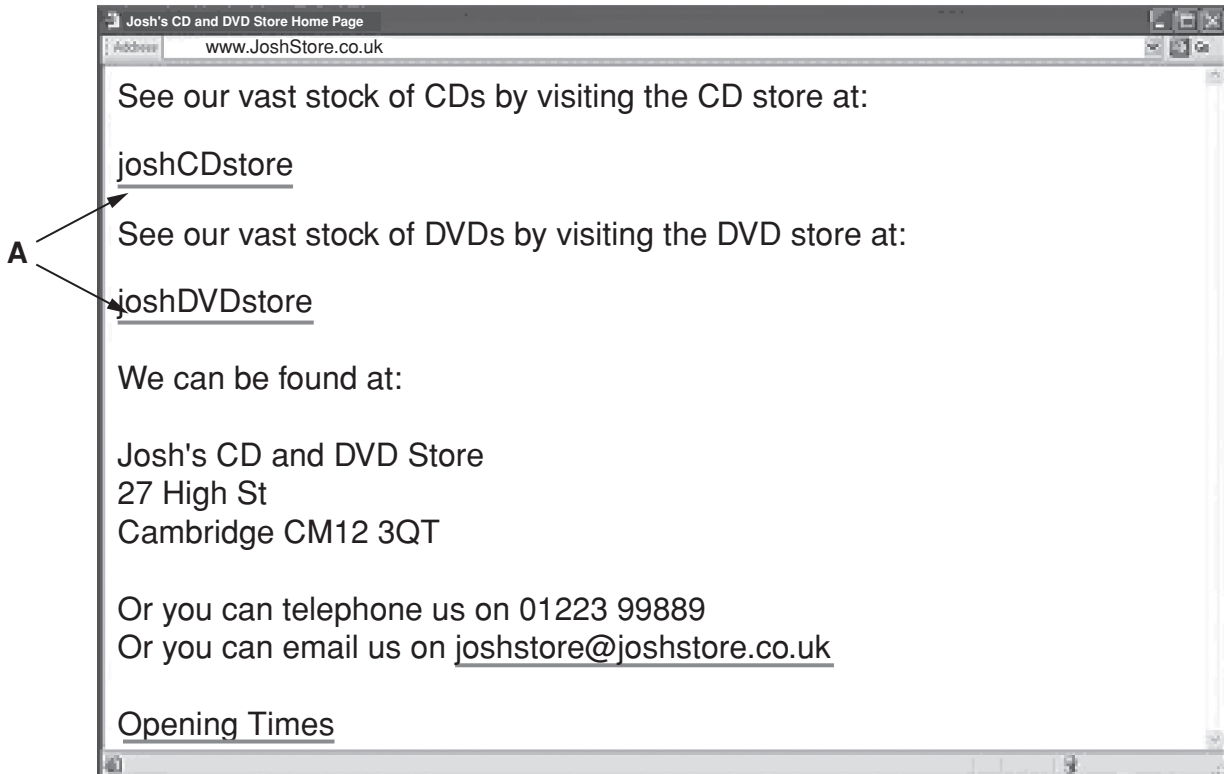
[2]

(c) Write a suitable formula to be put into cell D15 to calculate the total amount spent.

.....[2]

- 8 A music store has set up a website to advertise its store. The site has many pages showing its CDs and DVDs, its opening times and its contact details.

Here is the store's home page.



- (a) Why are the words at **A** underlined?

.....[1]

- (b) The homepage is very boring.

Explain how the page could be made more interesting to visitors.

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

- (c) Give **two** suitable features that could be added to make it easier for visitors to navigate around the site.

Feature 1

.....

Feature 2

.....[2]

- (d) Customers are asking for the store to start selling CDs and DVDs over the Internet but the store manager has some worries about this.

Explain what the manager may be worried about.

.....

.....

.....

.....

.....

.....

.....

.....[4]

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (OCR) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

OCR is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.