

1 hour

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

PAPER 1 (FOUNDATION TIER)

2357/01

Afternoon

Tuesday

23 MAY 2006

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

Candidate Name						
Centre Number			Candidate Number			

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer all the questions.
- Write your answers, in blue or black ink, in the spaces on the question paper.
- Do not write in the bar code. Do not write in the grey area between the pages.
- DO NOT WRITE IN THE AREA OUTSIDE THE BOX
 BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL
 NOT BE MARKED.

INFORMATION FOR CANDIDATES

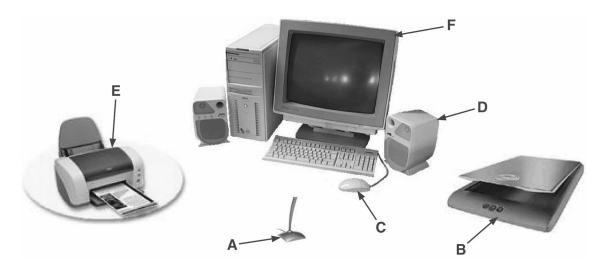
- The number of marks is given in brackets [] at the end of each question or part question.
- No marks will be awarded for using brand names of software packages or hardware.
- The total number of marks for this paper is 60.

FOR E	XAMINER'	S USE
Question No.	Max. Marks	Mark
1	10	
2	4	
3	8	
4	7	
5	2	
6	7	
7	4	
8	12	
9	4	
10	2	
TOTAL	60	

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

Answer all questions.

1 Daisy uses this computer system to write reports for a school newsletter.



Name the items labelled \mathbf{B} , \mathbf{C} , \mathbf{D} , \mathbf{E} and \mathbf{F} . Tick **one** box in each row to show whether the item is used for input or output.

Item **A** has been done for you.

Item	Name of Item	Input (✓)	Output (✓)
Α	Microphone	1	
В			
С			
D			
E			
F			

2 Tick **one** box in each row to show whether the statement is true or false.

Statement	True (✓)	False (✓)
A modem is used to communicate using the telephone system		
Using a password will stop viruses from infecting your computer		
A floppy disk can store more data than a CD-ROM		
A field in a school database stores all the data about a pupil		

[4]

a)	Use the space below to design a suitable data capture form that David could use to man record his data each lunchtime for a week.

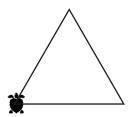
4	drink			
3 (2 ==		
4				
	ا العند عنوباواها	0.55	1	0.55
5 (chicken roll	0.98	2	1.96
	chocolate bar	0.45	1	0.45
	fruit	0.40	2	0.80
7 8				
		ne formula =B4*C4		
e the co	ell reference of th			
needs a		ulate the total sper ble formula that he		
		no rominara macilio	Journ Goo.	

5		therine wants to store the nands on her computer. She de	•				ormation at	oout her
	Giv	ve two reasons why she uses	a database.					
	Re	ason 1						
	Re	ason 2						
								[2]
6	(a)	An on-line bookseller has set Tick one box in each row to data shown in the table.	·					mples of
		Description of data	Example	Boolean (√)	Text (✓)	Numeric (integer) (√)	Numeric (real) (√)	
		Telephone number	01223 2345					
		Account has been paid	N					
		Amount paid	£25.89					
		Number of books	14					
	/L \	State what is made at his these						[4]
	(D)	State what is meant by thes (i) a record						
		(ii) a field						
		(iii) a file						
								[1]

7 A floor turtle can use the following instructions.

INSTRUCTION	SHORT INSTRUCTION	MEANING
REPEAT n[]	REPEAT n[]	Repeat the instructions in square brackets <i>n</i> times
FORWARD n	FD n	Move <i>n</i> cm forward
BACKWARD n	BK n	Move <i>n</i> cm backward
LEFT n	LT n	Turn left <i>n</i> degrees
RIGHT n	RT n	Turn right <i>n</i> degrees

(a) A set of instructions was given to the floor turtle and it drew this triangle with equal sides.



Complete the instructions.

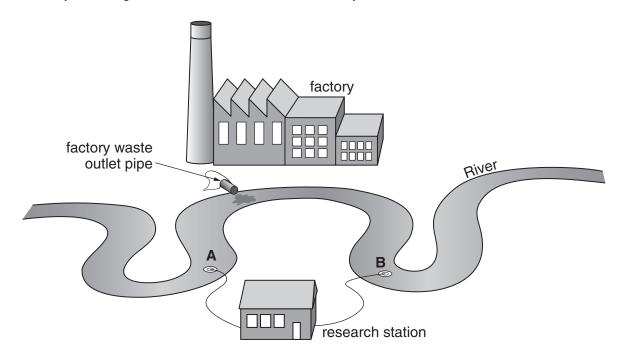
	RIGHT 30	
	[FORWARD 20 RIGHT 120]	[2]
(b)	Another set of instructions was used to create this shape.	

Complete the instructions.

FORWARD 25
RIGHT 90
25
RIGHT 90
FORWARD 50
90
FORWARD 100

[2] [Turn over

8 A factory discharges its waste materials into a nearby river.



A research station monitors the conditions in the river using sensors ($\bf A$ and $\bf B$) connected to a computer.

(a)	State two suitable sensors that could be used by the research station to monitor the river.
	Sensor 1
	Sensor 2[2]
(b)	Explain why the river conditions are monitored using sensors and a computer rather than manually.
	[4]

	(c)	The scientists at the research station want to analyse the data and display the results in a report. Describe how they would do this.
		[6]
9	Des	scribe ways a family could use the Internet to plan a visit to the cinema.
		[4]
10		gela is downloading music files from the Internet and using them to make CDs to sell at school. plain why Angela should not do this.
		[2]

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