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GENERAL CERTIFICATE OF SECONDARY EDUCATION

2357/02

INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 1 (Higher Tier)

MONDAY 14 JANUARY 2008

Afternoon

Time: 1 hour 15 minutes

Candidates answer on the question paper

Additional materials: No additional materials are required



Candidate Forename				Candidate Surname				
Centre Number				Candidate Number				

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer all the questions.
- Do **not** write in the bar codes.
- Do not write outside the box bordering each page.
- Write your answer to each question in the space provided.
- Additional answer space is available on the lined pages at the back of this booklet. Answers on these pages must be clearly numbered.

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.

FOR EXAMINER'S USE			
1			
2			
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6			
7			
8			
9			
10			
11			
TOTAL			

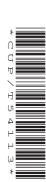
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1	Stat	e three ways scanning software can be used to alter a scanned image.
	Way	<i>,</i> 1
	Way	, 2
	Way	/ 3[3]
2		chool has a large number of computers connected together in a network. ser name and password are needed to access the computers.
	(a)	Why is a user name needed?
		[1]
	(b)	Why is a password needed?
		[1]
	(c)	State two pieces of advice that should be given to someone when they choose their password.
		1
		2[2]
	(d)	Give two problems that may be caused by having the computers connected together in a network.
		Problem 1
		Problem 2
		[2]

(e)	The network is connected to the Internet but some websites and Internet services are blocked so that students cannot use them.
	Explain why the school has blocked these sites and services.
	[4]
(f)	The network is connected to the Internet by a digital telephone line.
	State why it is not necessary to use a modem for this connection.
	[1]

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3 Part of a table from a database is shown below.

	Forename	Family Name	Year Group	Form Group	DOB	Exam Score	Passed	
$ \leftarrow $	Maroof	Jones	10	R	10 Jan 1969	58.34	Y	>
	Simon	Helm	10	Q	26 Feb 1969	12.89	N	
A'	Marianne	Smogge	10	W	13 Mar 1969	65.67	Υ	
	Adrienne	Quorry	10	W	10 Feb 1969	20.34	N	
		В						•

(a) Complete the sentences using the words in this list.

record field sorting searching file

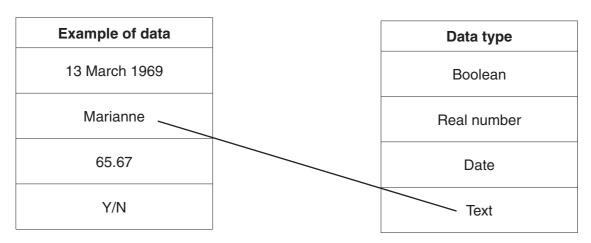
_			
Λ	ic	2	
\boldsymbol{H}	10	a	

B is a

Finding all the people in Form Group W is called

The database is stored on disk in a[4]

(b) Draw a line to link each of the examples of data to the most appropriate data type. One is done for you.

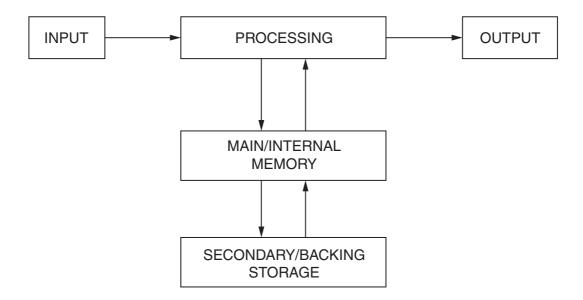


[3]

4	Arth	Arthur is a graphics designer and works on many large images, both at home and in his office.									
	(a)	Identify a suitable storage medium that he could use for transporting his files between his home and office.									
		[1]									
	(b)	Give two reasons for your choice of storage medium.									
		Reason 1									
		Reason 2									
		[2]									
5	\ \ /b.	at in tale conformains?									
ວ	VVII	at is tele-conferencing?									
	••••										
		[2]									
6	Ann	ne wants to use a spreadsheet to predict future profits for her business.									
	Des	scribe the features of spreadsheet software that would allow her to do this.									
		[4]									

Jaydon has to present a history project to his class and decides to use multimedia software.
Explain the features of multimedia software that he could use to make his presentation more interesting to his class.

8 The diagram shows a computer system.

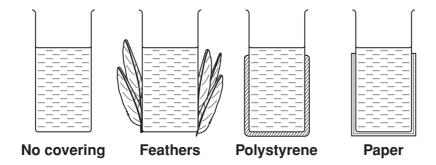


Explain the differences between the main/internal memory and the secondary/backing storage.	
	Γ <i>6</i>

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Computer Aided Learning (CAL) is often used to neip students learn a subject.
Discuss the advantages and disadvantages of the use of CAL in schools.
161

10 The diagram shows a science experiment set up to investigate the insulation properties of three different materials. Each container is the same size and holds the same amount of water at the same starting temperature. The containers are filled with hot water and then left to cool down.



and display the results of the experiment.
[6]

Please turn over for the last question

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11	By the end of the 20 th Century most businesses were using ICT.
	Describe the changing patterns of employment related to the increased use of ICT.

If you use these lined pages to complete the answer to any question, the question number must be clearly shown.

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