

# H

## 2359/02

## **GENERAL CERTIFICATE OF SECONDARY EDUCATION**

## INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 3 (Higher Tier)

#### **THURSDAY 17 JANUARY 2008**

Morning

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.

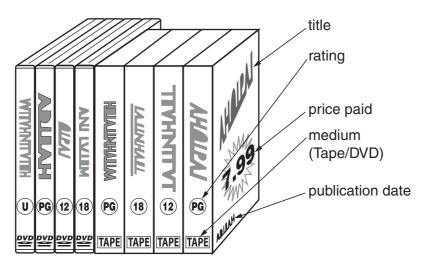
### **INFORMATION FOR CANDIDATES**

- 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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10					
11					
12					
TOTAL	_				

1	The laptop computers in a school are using a wireless connection to the network.	
	Give <b>one</b> advantage and <b>one</b> disadvantage of using a wireless connection for the laptops.	
	Advantage	
	Disadvantage	
		. [2]
2	Explain why an electricity supply company uses batch processing to prepare its bills.	
_		. [∠]

**3** Eve is creating a database of her collection of videos and DVDs.



(a) She creates five fields for her database.

Complete the table to show the most suitable data type for each of the fields.

Field	Data type
Title	
Rating	
Price paid	
Medium (Tape/DVD)	
Publication date	

	(b)	Eve sets up some validation rules.	
		Why does she do this?	
			[1]
	(c)	State <b>one</b> validation method that could be used for the 'Medium (Tape/DVD)' field.	
	(d)	Describe how Eve would verify the entries.	
			[2]
4	An e	expert system can be used to play chess.	
	(a)	Give <b>one</b> other example of an expert system.	
			[1]
	(b)	Give <b>two</b> benefits of using an expert system.	
		Benefit 1	
		Benefit 2	
			[2]

1													
2 .													
3 .													
Exp	plain hov	v files s	tored o	n a co	mpute	r netw	ork may	be pro	otected	from u	ınautho	rised (	users.

7	(a)	What is meant by 'electronic fraud'?
		[2
	(b)	Explain how a person can avoid being the victim of electronic fraud.
		[4

A book shop is still using a card index system to store details of the books in stock. The shopkeeper wants to replace it with a computerised system. An analysis is being made of the current system.

	Inputs
(i)	inputs
(ii)	Processing
(iii)	Outputs
( )	
Explain	how an electricity supply company would use a turnaround document as part of its bil
Explain system.	how an electricity supply company would use a turnaround document as part of its bil
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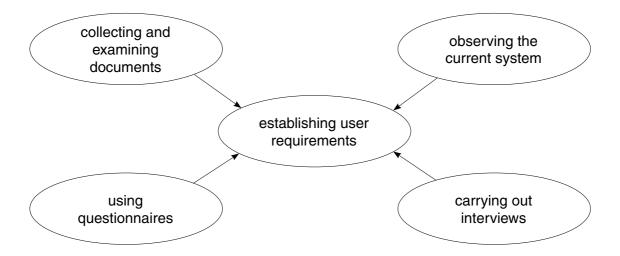
10	Test	data is used to test a new system.
	(a)	What is meant by extreme data?
		[1]
	(b)	What is meant by abnormal data?
		[1]
	(c)	What is meant by normal data?

Please turn over for the next question

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11	A command line interface or a graphical user interface may be used to control the production line for making cars.
	Discuss the advantages and disadvantages of the two types of interface.
	[8]

12 The diagram shows the different methods of collecting information to establish the user requirements for a new system.



Discuss the different methods of collecting information.
[8

clearly shown.

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