

# 2359/01

# GENERAL CERTIFICATE OF SECONDARY EDUCATION INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 3 (Foundation Tier)

**FRIDAY 6 JUNE 2008** 

Morning
Time: 1 hour

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.
- Write your answer to each question in the space provided.

#### **INFORMATION FOR CANDIDATES**

- The number of marks for each question 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 EXAM	NER'S USE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
TOTAL	

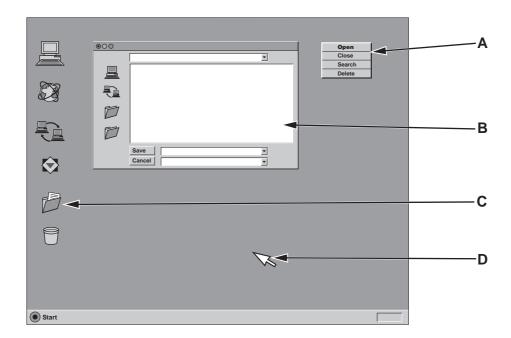
This	document	consists of	10	printed	pages	and 2	blank	pages

1 Underline **two** ways of keeping data safe.

authorising	backing up	encrypting
hacking	sorting	searching

[2]

2 The diagram shows some features of a typical graphical user interface (GUI).



Choose one of the features listed below to complete each of the following sentences.

an icon a menu a pointer a window	
<b>A</b> is	
<b>B</b> is	
<b>C</b> is	

**D** is ......[4]

The table shows a list of storage media. 3

Tick **one** box in each row to show whether or not data can be changed.

	Data <b>can</b> be changed ( )</th <th>Data <b>cannot</b> be changed</th>	Data <b>cannot</b> be changed
Hard disk		
ROM		
RAM		
CD-ROM		
CD-RW		

[5]

Underline two devices used for data capture.

	bar code reader	CD-ROM	monitor	
	mouse	OCR	speaker	[2]
5	Multimedia presentations may contain	n data in the form of t	ext.	
	State <b>two</b> other forms of data that a r	multimedia presentati	on may contain.	
	1			
	2			[2]

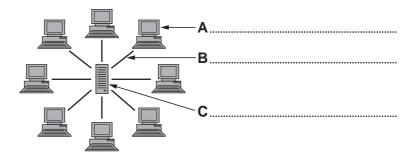
[Turn over © OCR 2008

6 This is an example of a screen output from a hotel database.

happystay hotel swallow Lane birmingham		
1	Name mr IAN smith	addREss 82 Bar RISE
		Tellephone 0970 234 567
no. of room: 12		
Numbber of guests; 2 type of room – non–smoking – dubble – bath/shower		

Identify <b>four</b> problems with the design of the screen.
1
2
3
4
[4

7 The diagram shows a star network. Label the items at A, B and C.



[3]

8 Tick **one** box in each row to show which type of software carries out the task shown.

Task	Operating System (✓)	Applications software ( )</th <th>Utility <b>(√)</b></th>	Utility <b>(√)</b>
managing memory			
formatting disks			
creating a 3D image of a car			
creating a report from a database			
scanning for viruses			

[5]

9	A hospital has three sites some distance apart. It has a wide area network (WAN) that is connected between these sites.
	Give <b>one</b> method of communication that could connect the network between the two sites.
	[1]
10	A supermarket has a database which it uses for stock control. The database is updated as goods
	are sold at the checkout.
	Details of some goods are entered into the database at the checkout using keyboards and keypads.
	Identify <b>two</b> other devices that could be used to collect data from the goods and give <b>one</b> reason why each device would be used.
	Device 1
	Reason
	Device 2
	Reason
	ΙΔΙ

© OCR 2008 [Turn over

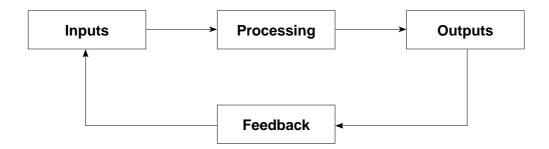
11		patient is admitted to hospital. His details are given to a secretary on a form and the secretary opies these into the hospital's database.							
	(a)	The	secretary carefully checks the details in the database against those on the form.						
		Wha	at is this process called?						
	(b)		hospital is registered under the Data Protection Act and the patient's details are protected						
	(D)	by l	· · · · · · · · · · · · · · · · · · ·						
		Sta	te <b>three</b> ways that the law protects the patient's details.						
			/ 1						
			/ 2						
		Way	/ 3						
			[3]						
	(c)	The	hospital needs the following personal details about the patient:						
			first name, last name, age and home address.						
		(i)	Why would it <b>not</b> be sensible to store the age of the patient in the database?						
			[1]						
		(ii)	How can this problem be overcome?						
			[1]						
		(iii)	More than one field is used for storing the home address.						
			Why is this useful?						
			[2]						

**12** An online store has a warehouse from which it sends out goods.

(a)	The database of items in the warehouse is stored on a hard disk.
	State <b>two</b> reasons why the database is stored on a hard disk rather than a CD-ROM.
	Reason 1
	Reason 2
	[2
(b)	The data on the hard disk is regularly archived.
	What is an archive?
	[2
(c)	Explain the advantages to the company of selling its goods online.
	[4

13	A company replaces its old computer system with a new system.				
	(a)	State <b>two</b> tasks that must be done before the operators can use the new system.			
		Task 1			
		Task 2			
	(b)	For six months, the company uses the old system alongside the new system.	[2]		
		Give <b>one</b> reason for doing this.			
14	A ca	ar manufacturer uses robots to make its cars.			
	One	e advantage of using robots is that human error is eliminated.			
	(a)	Give <b>two</b> reasons why errors might still occur.			
		Reason 1			
		Reason 2			
	(b)	Give <b>two</b> advantages, other than eliminating human errors, of using robots.			
		Advantage 1			
		Advantage 2			
			[2]		

15 The diagram shows the control feedback loop system for controlling the central heating of a house.



(a)	Identify <b>two</b> items of data that will be input to this system.	
	Data item 1	
	Data item 2	
		. [2
(b)	Identify <b>one</b> output from this system.	
		. [1
(c)	Explain what is meant by feedback.	
		ſΩ

## 10 BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE

## 11 BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE



#### PLEASE DO NOT WRITE ON THIS PAGE

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.