

**GCSE (Short Course)**  
**INFORMATION AND COMMUNICATION  
TECHNOLOGY**

Paper 1 (Foundation Tier)

**MONDAY 15 JANUARY 2007**

**F 2357/01**

Afternoon

Time: 1 hour

No additional materials are required.



Candidate  
Name

Centre  
Number

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Candidate  
Number

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**INSTRUCTIONS TO CANDIDATES**

- Write your name, Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Do **not** write in the bar code.
- Do **not** write outside the box bordering each page.
- WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE 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 Examiner's Use		
Question No.	Max. Marks	Mark
1	5	
2	3	
3	2	
4	5	
5	3	
6	8	
7	4	
8	4	
9	11	
10	5	
11	1	
12	9	
Total	60	

This document consists of **11** printed pages and **1** blank page.

- 1 Tick **one** box in each row to show whether the item is hardware or software. The first one has been done for you.

Item	Hardware (✓)	Software (✓)
Database		✓
Joystick		
Microphone		
Monitor		
Printer		
Spreadsheet		



[5]

- 2 Tick **one** box in each row to show which item is most suitable for each of the tasks shown.

Task	A4 scanner (✓)	Digital camera (✓)	Graphics package (✓)
Inputting a picture from paper to a computer.			
Editing a picture on a computer.			
Taking a new picture for use on a computer.			

[3]

3 Tick **one** box in each row to show which item is most suitable for each of the tasks shown.

	Laser printer (✓)	Dot Matrix printer (✓)
		
Making many high quality copies in an office.		
Printing on multi-part stationery in a garage.		

[2]

4 (a) Tick **one** box in each row to show which storage medium is most suitable for each of the tasks shown.

	CD-ROM (✓)	Hard disk (✓)	Magnetic tape (✓)
Selling computer games.			
Storing files on a network.			
Backing up files on a network.			

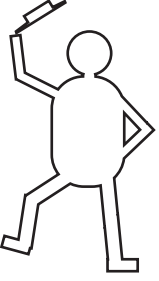

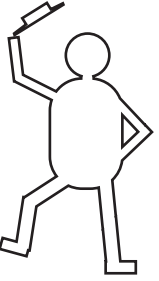
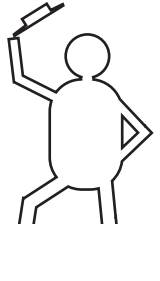


[3]

(b) Give **two** reasons why floppy disks are **not** often used for data storage.

Reason 1 .....

Reason 2 ..... [2]

- 5 Tick **one** box in each row to show which graphics feature has been used to change the original image into the changed image.

Original Image	Changed Image	Fill (✓)	Resize (✓)	Flip (✓)	Crop (✓)
					
					
					

[3]

6 Angus uses the spreadsheet below to work out how much he spends on music.

	A	B	C	D
1	<b>Music</b>	<b>Number</b>	<b>Cost</b>	<b>Total</b>
2	CDs	3	10.99	=B2*C2
3	MP3 files	20	0.99	=B3*C3
4			<b>Total</b>	=D2+D3

(a) Tick **one** box in each row to show what these three cells contain.

	Value (✓)	Label (✓)	Formula (✓)
Cell B1 contains a			
Cell C2 contains a			
Cell D3 contains a			

[3]

(b) Give the cell reference that shows the cost of a CD.

.....[1]

(c) Give the cell reference that shows the total amount spent by Angus.

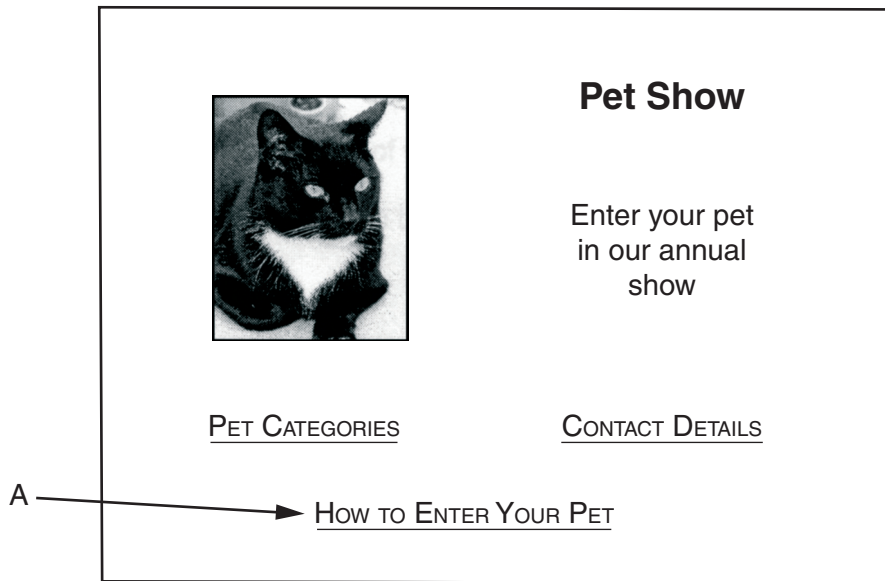
.....[1]

(d) Angus has saved his spreadsheet and does not want to lose it.

Describe how he could make sure that this does not happen.

.....  
 .....  
 .....  
 .....[3]

7 This is a window showing a website home page.



- (a) What type of computer program is used for viewing web pages?  
.....[1]
- (b) State **one** feature of the software that would allow you to revisit a page.  
.....[1]
- (c) (i) What is the underlined text at A called?  
.....[1]
- (ii) Describe what would happen if a user clicked on the text at A.  
.....  
.....[1]

8 A computer manager is worried about hacking and computer viruses.

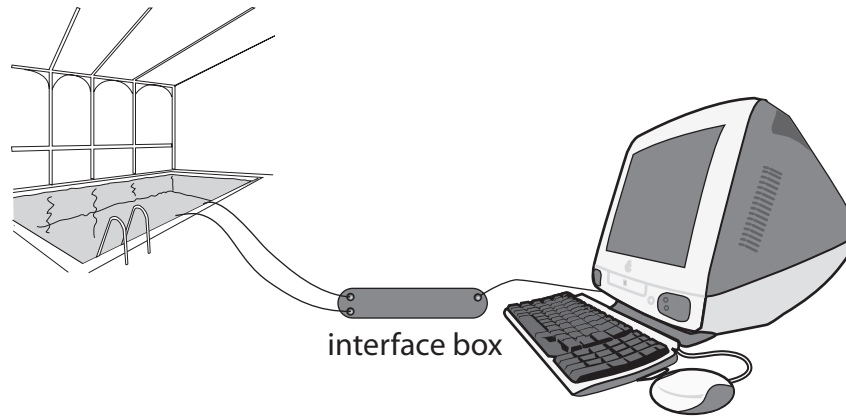
(a) What is meant by hacking?

.....  
.....  
.....  
.....[2]

(b) What is a computer virus?

.....  
.....  
.....  
.....[2]

9 A computer system uses sensors to monitor the water in a school swimming pool.



(a) Explain why the sensors are connected to the interface box and not directly to the computer.

.....  
.....  
.....  
.....[2]

(b) State **one** disadvantage of using a computer system to monitor the water.

.....  
.....[1]

(c) The data from the sensors is collected and stored by the computer.  
Describe how the collected data could be used.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....[6]





12 Megan is creating a database about a netball team.

(a) Give a suitable data type for each of the fields shown in the table.

Write your answers in the spaces in the table.

Two have been done for you.

Field	Example data	Data type
Player ID	2342	
First name	Megan	<i>alphanumeric</i>
Date of birth	15/10/1992	
Position played	Goal defence	
Telephone number	01223 24293	
Available after school	Yes	<i>Boolean</i>

[4]

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

.....[1]

(ii) Why is this field suitable?

.....[1]

(c) Data is validated as it is entered into her database.

What is meant by validation?

.....  
 .....[2]

(d) Give **one** validation check that could be used on the Player ID field.

.....[1]

11  
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