



**F**

**Friday 13 January 2012 – Morning**

**GCSE INFORMATION AND COMMUNICATION TECHNOLOGY**

**2357/01** Paper 1 (Foundation Tier)



Candidates answer on the Question Paper.

**OCR supplied materials:**  
None

**Other materials required:**  
None

**Duration:** 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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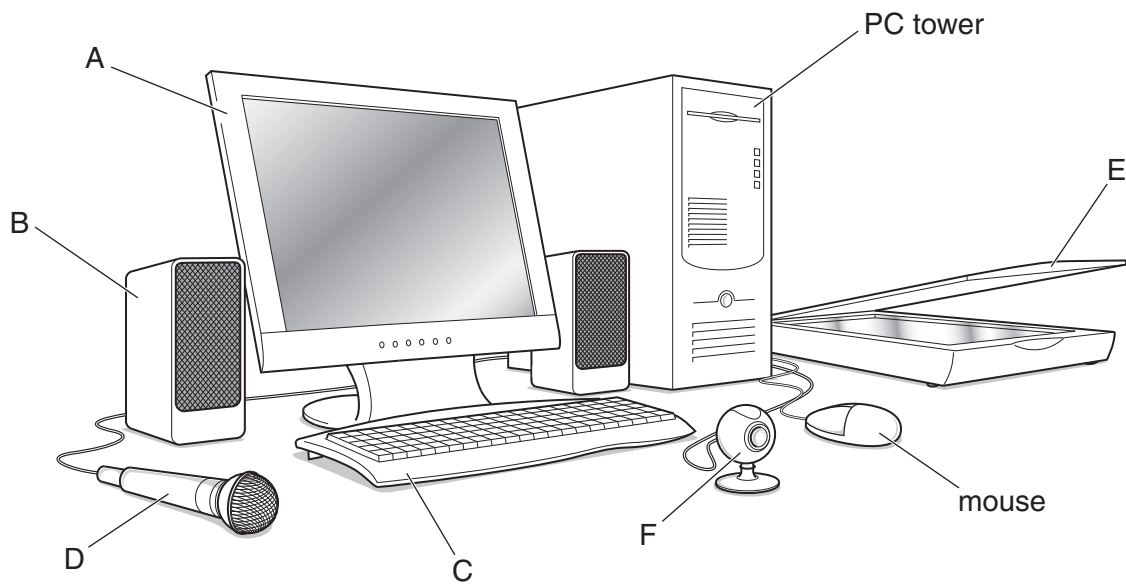
**INSTRUCTIONS TO CANDIDATES**

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

**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.
- This document consists of **12** pages. Any blank pages are indicated.

1 Amanda uses this desktop computer system at home.



(a) Identify the hardware components labelled A to F.

Write your answers in the table below.

	Hardware Component
A	
B	
C	
D	
E	
F	

[6]

(b) Tick **one** box in each row to show whether the component is used for input or output.

Item	Input (✓)	Output (✓)
A		
B		
C		
D		
E		
F		

[6]

(c) State **one** appropriate use for the mouse.

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

(d) The desktop computer system includes internal memory and backing storage devices in the PC tower.

Explain the differences between internal memory and backing storage.

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.....  
..... [4]

(e) (i) Why is it important that Amanda creates backups of her files?

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

(ii) State **one** storage medium that is suitable for storing the backups of Amanda's files.

..... [1]

(f) The desktop computer is connected to the internet.

Give **three** precautions that Amanda should take to protect her computer system from viruses.

Precaution 1 .....

.....

Precaution 2 .....

.....

Precaution 3 .....

..... [3]

2 Brian uses a computer system to edit his digital photographs.

These are two of Brian's photographs.



Below is an image that Brian has created from the two photographs using image manipulation software.



(a) Describe how Brian has used software to create the new image from the two photographs.

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..... [6]

(b) Brian wishes to make printouts of his digital photographs to take to school.

(i) Give **two** reasons why Brian might choose to use an inkjet printer rather than a laser printer to print his photographs.

Reason 1 .....

.....

Reason 2 .....

..... [2]

(ii) Give **one** disadvantage of using an inkjet printer to print many copies of photographs.

.....

..... [1]

3 Describe what is meant by the terms hardware and software.

**Hardware** .....

.....

.....

.....

**Software** .....

.....

.....

..... [4]

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**PLEASE TURN OVER FOR THE NEXT QUESTION**

- 4 Serena is the manager of a restaurant and uses a spreadsheet for her finances.

Serena uses this spreadsheet to model her finances. The spreadsheet uses formulas in some cells.

	A	B	C	D	E	F	G
1	<b>Monday Sales</b>						
2							
3	<b>Food item</b>	<b>Price to make</b>	<b>Selling Price</b>	<b>Quantity sold</b>	<b>Takings</b>	<b>Profit on food/drinks</b>	
4							
5	Couscous salad	£4.00	£9.95	23	£228.85	£136.85	
6	Steak & chips	£6.00	£14.95	12	£179.40	£107.40	
7	Burger & chips	£2.87	£8.50	11	£93.50	£61.93	
8	Pizza	£2.56	£7.95	5	£39.75	£26.95	
9	Jerk chicken	£4.16	£11.95	7	£83.65	£54.53	
10	Prawn salad	£3.45	£8.75	19	£166.25	£100.70	
11	Portion of chips	£0.50	£2.50	23	£57.50	£46.00	
12	Ham salad	£2.45	£5.95	9	£53.55	£31.50	
13	Sweet & sour pork	£3.21	£9.50	16	£152.00	£100.64	
14	Cheese omelette	£1.89	£4.95	8	£39.60	£24.48	
15	Coffee	£0.55	£2.95	26	£76.70	£62.40	
16	Tea	£0.45	£1.80	32	£57.60	£43.20	
17	Soft drinks	£0.37	£2.00	12	£24.00	£19.56	
18							
19							
20				Totals	£1,252.35	£816.14	
21							
22	<b>Monday Outgoings</b>						
23							
24	<b>Item</b>		<b>Wages</b>	<b>No. of staff</b>	<b>Total</b>		
25	Staff wages		£35.00	22	£770.00		
26	Electricity, gas etc				£125.00		
27							
28				Total	£895.00		
29							
30					Monday Profit/Loss	-£78.86	



(a) (i) The formula in cell E5 is `=C5*D5`

What does this formula do?

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

(ii) Write a suitable formula for use in cell F8 to calculate the profit on the pizzas for that day.

..... [2]

(b) (i) Serena has lost money on the day. How does she know this from the spreadsheet?

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..... [2]

(ii) Explain how she could use formatting tools to make the Monday Profit/Loss easier to see.

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..... [4]

10

- (c) Explain how Serena could use her spreadsheet model to find ways of making a profit instead of a loss.

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[8]

- 5 A gardening shop uses a database to store data about the items it sells. The table below shows part of the design of the database.

Complete the table by giving the most appropriate data type and a reason for your choice.

<b>Field name</b>	<b>Example data</b>	<b>Data type</b>	<b>Reason for using the data type</b>
Product description	18 cm spade		
Number in stock	14		
Price	£8.34		

[6]

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