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Friday 13 January 2012 – Morning

GCSE INFORMATION AND COMMUNICATION TECHNOLOGY

2357/02 Paper 1 (Higher Tier)

Candidates answer on the Question Paper.

OCR supplied materials:
None

Other materials required:
None

Duration: 1 hour 15 minutes

Candidate forename		Candidate surname	

Centre number						Candidate number				

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.

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1 Computer systems include internal memory and backing storage.

Explain the differences between internal memory and backing storage.

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

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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.

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

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

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3 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	**Monday Sales**						
2							
3	**Food item**	**Price to make**	**Selling Price**	**Quantity sold**	**Takings**	**Profit on food/drinks**	
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	**Monday Outgoings**						
23							
24	**Item**		**Wages**	**No. of staff**	**Total**		
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	

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

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

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

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4 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.

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

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

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(b) What is meant by the following database terms?

record

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file

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5 Amir has collected data using a survey and needs to enter it into a database for analysis.

Describe methods Amir could use to make sure that the data is entered accurately.

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6 Scientists are investigating the environment at the bottom of the sea.

(a) Describe how they could use ICT to collect and display their results.

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(b) Discuss the advantages and disadvantages of using computer systems to collect and display the data collected.

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7 "Children's use of the internet should always be monitored."

Discuss this statement.

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