



**GENERAL CERTIFICATE OF SECONDARY EDUCATION**  
**INFORMATION AND COMMUNICATION TECHNOLOGY B061**  
 ICT in Today's World

Candidates answer on the question paper.

**OCR supplied materials:**  
None

**Other materials required:**  
None

**Thursday 16 June 2011**  
**Afternoon**  
**Duration: 1 hour**



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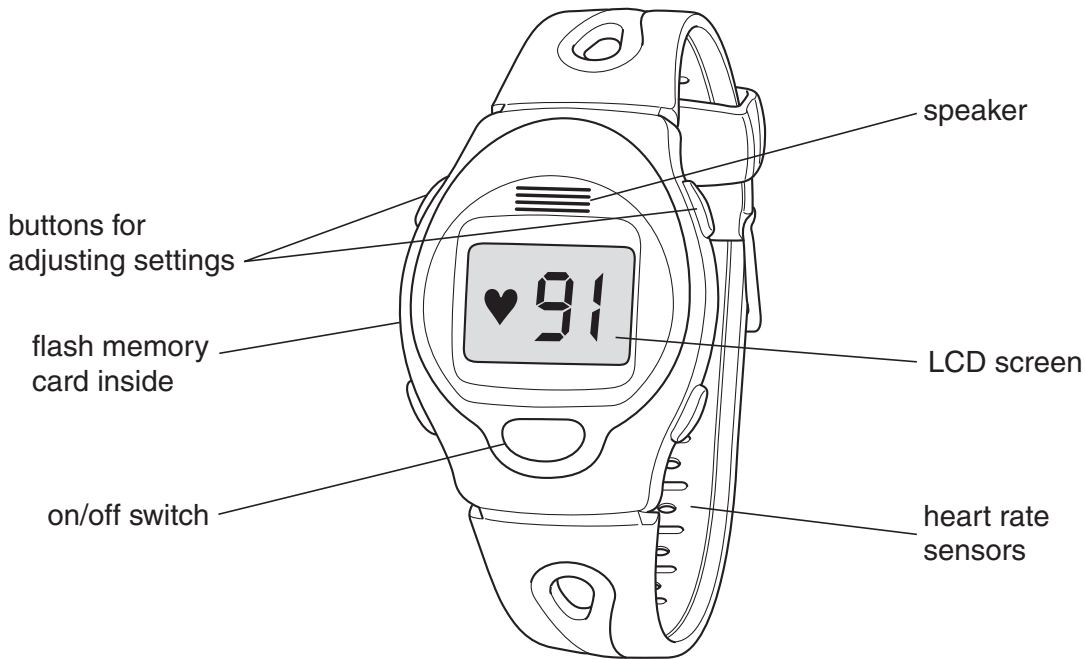
**INSTRUCTIONS TO CANDIDATES**

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. Pencil may be used for graphs and diagrams only.
- 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).
- Answer **all** the questions.
- 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**.
- Your quality of written communication is assessed in questions marked with an asterisk (\*).
- This document consists of **12** pages. Any blank pages are indicated.

1 Beverley uses a computerised data logger to monitor and record her heart rate while running.



(a) The data logger contains input, output and storage components.

Identify **one** component that is used for input.

.....

Identify **one** component that is used for output.

.....

Identify **one** component that is used for storage.

..... [3]

(b) The computerised data logger contains an analogue to digital converter.

Explain why this is needed.

.....  
.....  
.....  
.....

..... [2]

(c) Describe **one** difference between computer monitoring and computer control.

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

2\* Discuss the impact of the increased use of ICT on the way people spend their leisure time.

The quality of written communication will be assessed in your answer to this question.

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..... [8]

3 Sarbjit communicates with his friends and colleagues by email, SMS (text messages) and instant messaging.

(a) Describe **two** differences between email and instant messaging.

1 .....

.....

.....

.....

.....

2 .....

.....

.....

.....

..... [4]

(b) Give **one** benefit and **one** drawback of using text messages to communicate with friends.

Benefit .....

.....

Drawback .....

..... [2]

(c) Sarbjit plans to use video conferencing to keep in contact with his business colleagues.

Identify **three** devices Sarbjit must have in his computer system so he can set up a video conference. Give a reason for having each one.

Device 1 .....

Reason .....

.....

Device 2 .....

Reason .....

.....

Device 3 .....

Reason .....

.....

[6]

4 Complete the table below by stating the most suitable type of software application for each of the tasks shown.

Task	Software application
creating a leaflet	
creating a web page	
editing digital images	
storing students' details	

[4]

5 A user name and password are required to access the computers on a school network.

(a) What is the purpose of the user name?

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

(b) What is the purpose of the password?

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

6 (a) Explain, using examples, what is meant by the term malicious software.

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

(b) Describe **two** ways a school can try to prevent malicious software affecting its computers.

1 .....

.....  
.....  
.....

2 .....

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

7 Pawel uses a spreadsheet with formulas to model the profit and loss in his shop. His spreadsheet for some of the items he sells is shown below.

	A	B	C	D	E
1	<b><u>Pawel's Profit/Loss</u></b>				
2	<b>Item</b>	<b>Price paid per kg</b>		<b>Selling Price per kg</b>	<b>Profit/Loss</b>
3	Apples	£0.35		£0.70	£0.35
4	Oranges	£1.20		£0.95	-£0.25
5	Pears	£0.68		£0.67	-£0.01
6	Onions	£0.25		£0.68	£0.43
7	Sprouts	£0.37		£1.20	£0.83
8	Mushrooms	£1.10		£1.00	-£0.10
9	Radishes	£1.09		£0.44	-£0.65
				<b>Profit/Loss</b>	<b>£0.60</b>

(a) How have cells A1 to E1 been formatted to allow the label **Pawel's Profit/Loss** to occupy all the cells?

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

(b) (i) Give the cell reference of **one** cell that contains:

a value .....  
 a formula ..... [2]

(ii) Give **two** advantages of using formulas in the spreadsheet.

1 .....  
 .....  
 2 .....  
 ..... [2]



(c) Describe **three** ways Pawel could use the spreadsheet model to find out how he could increase profit.

1 .....

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2 .....

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3 .....

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..... [6]



11  
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