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| Candidate forename | | Candidate surname | |
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| Centre number | | | | | | Candidate number | | | | |
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

B061

**INFORMATION AND COMMUNICATION
TECHNOLOGY**

ICT in Today's World

THURSDAY 16 JUNE 2011: Afternoon

DURATION: 1 hour

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the question paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

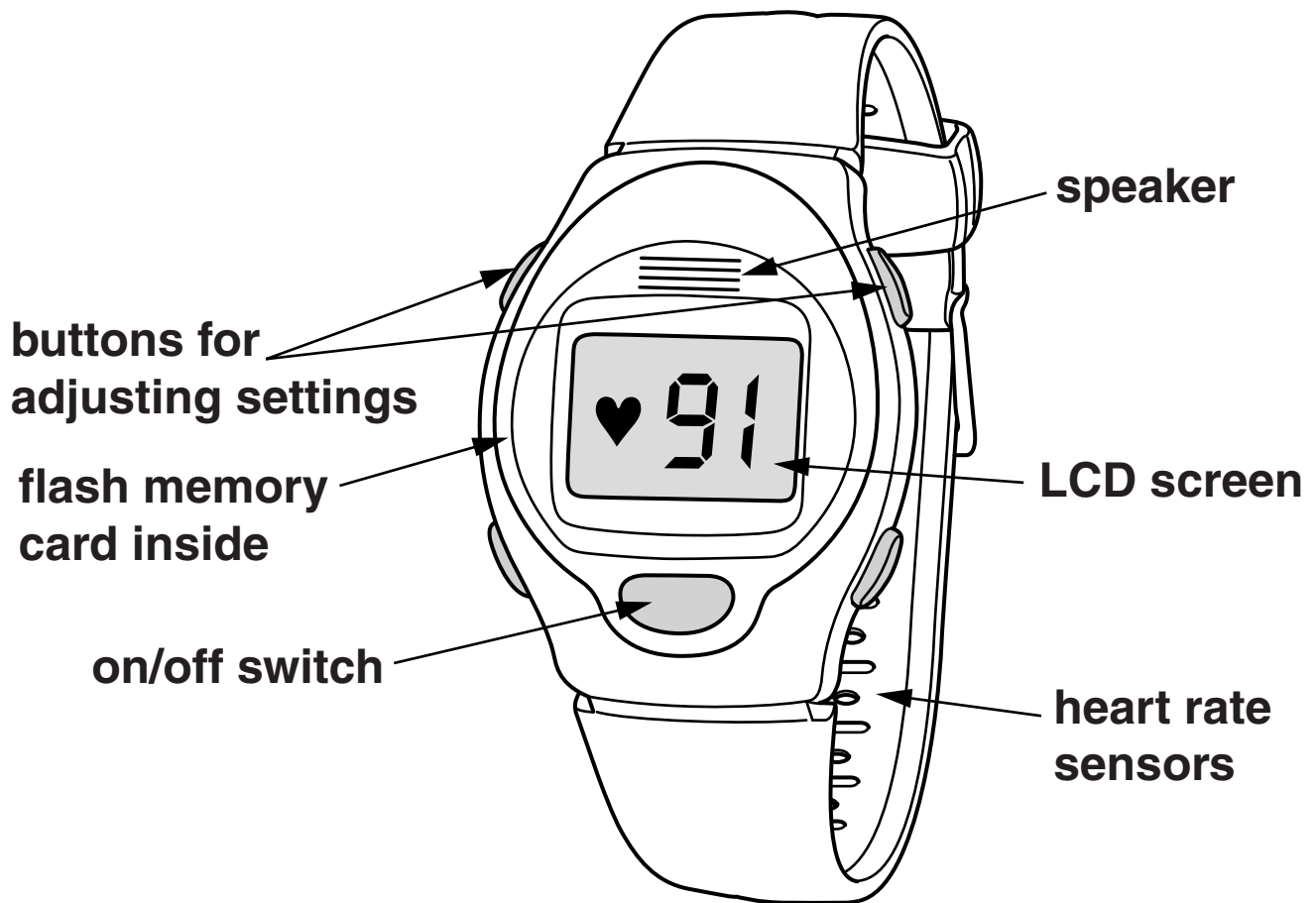
INSTRUCTIONS TO CANDIDATES

- **Write your name, centre number and candidate number in the boxes on the first page. 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.**

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 (*).**

- 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]

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.

[4]

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

1 _____

2 _____

[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 | <u>PAWEL'S PROFIT/LOSS</u> | | | | |
| 2 | ITEM | PRICE PAID PER kg | | SELLING PRICE PER kg | PROFIT/ LOSS |
| 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 |
| | | | | | |
| | | | | PROFIT/ LOSS | £0.60 |

- (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 _____

2 _____

3 _____

_____ **[6]**

8* Quality of written communication will be taken into account.

Many companies store the personal details of their customers.

Discuss how the Data Protection Act attempts to protect the rights of the customers.

[8]

END OF QUESTION PAPER

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