



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

Monday 10 January 2011
Afternoon
Duration: 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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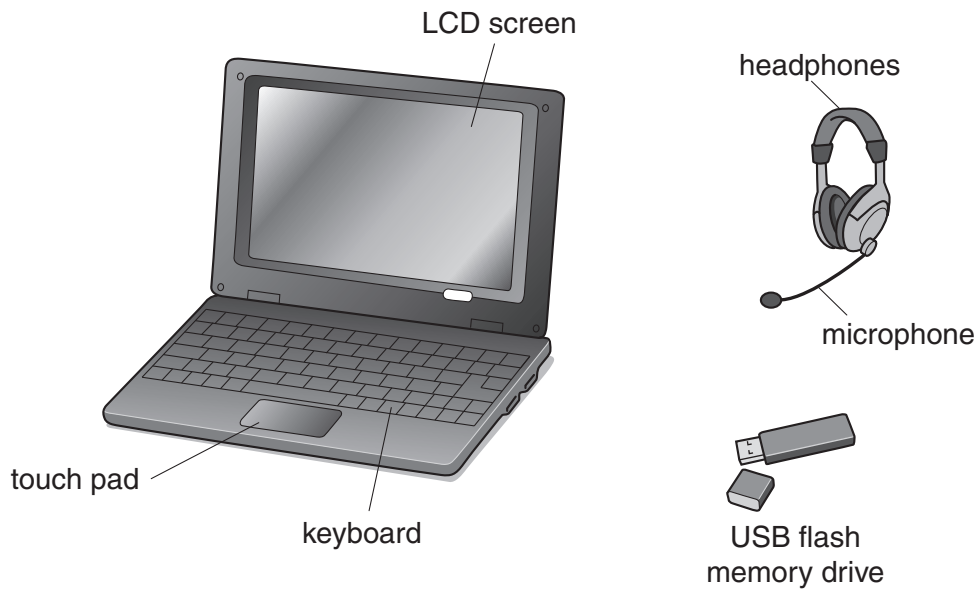
INSTRUCTIONS TO CANDIDATES

- 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 Students in a school use netbooks for their work. A netbook and some devices that may be used with it are shown below.



- (a) Tick **one** box in each row to show whether each device is used for storage, input or output. The first one has been done for you.

Device	Storage	Input	Output
USB flash memory drive	✓		
headphones			
keyboard			
LCD screen			
microphone			
touch pad			

[5]

- (b) Explain **one** advantage of using a netbook rather than a desktop computer for school work.

.....

.....

.....

..... [2]

(c) Give **two disadvantages** of using a netbook, rather than a desktop computer, for school work.

Disadvantage 1

.....

Disadvantage 2

..... [2]

2 A USB flash memory drive may be used for storing a backup of a file.

(a) What is a backup?

.....

..... [1]

(b) Explain **one** reason why a USB flash memory drive is suitable for storing backups.

.....

.....

.....

..... [2]

3 Vaneesa is a school student. She often uses chat rooms from home to keep in contact with other students.

(a) Give **four** precautions that Vaneesa should take when using chat rooms.

1

.....

2

.....

3

.....

4

..... [4]

(b) Vaneesa uses her netbook for accessing chat rooms, often for long periods of time.

State **two** health problems that Vaneesa might develop as a result of this, and how she could avoid them.

Problem 1

.....

How she could avoid this problem

.....

.....

Problem 2

.....

How she could avoid this problem

.....

..... [4]

6 A computer's operating system uses a Graphical User Interface (GUI).

State **three** features of a GUI, giving **one** benefit of each.

Feature 1.....

.....

Benefit.....

.....

Feature 2.....

.....

Benefit.....

.....

Feature 3.....

.....

Benefit.....

..... [6]

7 Describe how data encryption is used to keep information safe from unauthorised users.

.....

.....

.....

..... [2]

8 An online music shop uses a database to store details of its products.

(a) Part of this database is shown in the table below.

Item code	Product type	Number in stock	Retail price
A001	CD	10	£15.99
A002	DVD	34	£17.45
A003	MP3 track	1	£0.99
A004	CD	23	£10.87
A005	CD	23	£11.34
A006	CD	23	£14.56
A007	MP3 track	1	£0.90
A008	MP3 track	1	£0.85
A009	MP3 track	1	£0.78
A010	MP3 track	1	£0.99
A011	MP3 track	1	£0.99
A012	MP3 track	1	£0.99

(i) How many records are shown in the table?

..... [1]

(ii) Why is the Item code field suitable for use as the primary key?

.....
 [1]

(b) Describe how features of database software can be used by customers of the online music shop.

.....

 [4]

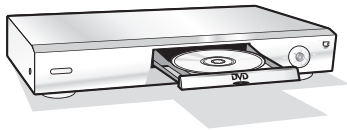
9 Bert and Theresa have a number of appliances in their home that contain embedded systems.



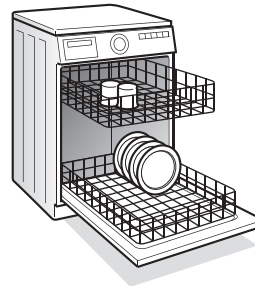
washing machine



microwave oven



DVD recorder



dishwasher

(a) Give **two** features of an embedded system.

Feature 1

.....

Feature 2

.....

..... [2]

(b) Identify **two** sensors that would be used in the washing machine.

Sensor 1

Sensor 2 [2]

11
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