Surname	
Other Names	
Candidate Signature	

AQA

General Certificate of Education
Advanced Subsidiary Examination
June 2013

Information and Communication Technology   **INFO2**

Unit 2   Living in the Digital World

Thursday 6 June 2013   1.30 pm to 3.00 pm

For this paper you must have:
● Insert for use with Questions 6 and 8 (enclosed).

Time allowed
● 1 hour 30 minutes

Instructions
● Use black ink or black ball-point pen.
● Fill in the boxes at the top of this page.
● Answer **all** questions.
● You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
● Do all rough work in this book. Cross through any work you do not want to be marked.

Information
● The marks for questions are shown in brackets.
● The maximum mark for this paper is 80.
● Question 8 should be answered in continuous prose.
  In this question you will be marked on your ability to:
  – use good English
  – organise information clearly
  – use specialist vocabulary where appropriate.

SECTION A

Answer **all** questions in the spaces provided.

1   A school uses an ICT attendance recording and reporting system.

Give an example of each of the following components of such a system.

1 (a)   The people using it.

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1 (b)   The information provided by it.

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1 (c)   The data entered into it.

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1 (d)   The hardware needed to operate it.

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(4 marks)

4

2   What is meant by the terms *coding* and *encoding of data*?

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(4 marks)

4

Turn over for the next question

Turn over ▶

3 Explain the need for standards when transferring data across an ICT network.

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(4 marks)

4

4 Batch and transaction are two types of processing.
Banks use batch processing to generate monthly statements for their customers and transaction processing when customers withdraw money from a cash dispenser.

4 (a) Explain why batch processing is suitable for producing monthly bank statements.

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(4 marks)

Question 4 continues on the next page

Turn over ▶

4 (b) Explain why transaction processing is suitable when customers are withdrawing money from a cash dispenser.

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(4 marks)

8

Section B

Answer **all** questions in the spaces provided.

5 A medical centre uses an ICT system to store patient records.
It is essential that this data is kept private and secure.

5 (a) Explain the difference between privacy and security in relation to the patient records held in the medical centre.

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(3 marks)

Question 5 continues on the next page

Turn over ▶

5 (b) Explain how the medical centre could maintain both the privacy and security of their patient records.

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(9 marks)

12

Turn over for the next question

Turn over ▶

6   Look at the leaflet shown in **Figure 1** in the insert.

Some charitable organisations have a scheme which allows people to recycle their mobile phones.

6 (a)   Explain how the recycling of mobile phones and other ICT equipment is contributing to improving the environment.

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(4 marks)

6 (b)   Discuss how concern for the environment has affected the ways in which ICT systems are used.

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(10 marks)

14

Turn over for the next question

Turn over ▶

7 Advances in ICT have made it possible for people to view, use and store media, such as television programmes, films and music, in different ways.

Discuss this statement.

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(14 marks)

14

Turn over ▶

8 Many people now use e-commerce for a number of different purposes. Examples of the home pages of e-commerce websites are shown in **Figures 2 and 3** in the insert.

Discuss the effects that e-commerce has had on individuals and society. *(20 marks)*

In this question you will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

This space is available for planning your answer, if you wish to use it.

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(20 marks)

20

END OF QUESTIONS

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