AQA

General Certificate of Education
Advanced Subsidiary Examination
June 2012

Information and Communication Technology   INFO2

Unit 2   Living in the Digital World

Tuesday 29 May 2012   9.00 am to 10.30 am

You will need no other materials.

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 What is ICT?

....

....

....

....

....

....

....

....

....

....

....

....

(4 marks)

4

2 Complete the table below to show the different forms that data can take. The first has been done for you.

Form of Data
Moving images

(4 marks)

4

3 An ethical issue in ICT arises from the easy access available to other peoples' unsecured wireless networks which can then be misused.

Describe **two** other ethical issues in ICT.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

(4 marks)

Turn over ▶

4 You have brought home your coursework on a USB pen drive. Unfortunately, when you try to access the data on your home computer, you receive a message saying that the data is corrupt and cannot be loaded.

Discuss what backup and recovery options you should have put in place to deal with this situation.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

(8 marks)

8

Turn over for the next section

Turn over ▶

SECTION B

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

5 Many retailers provide a system via a website which allows customers to purchase items online and have them delivered to their home.

Explain, using examples, how different types of processing could be used by such a system.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

(10 marks)

10

Turn over for the next question

Turn over ▶

6 A local hairdressing salon uses an ICT system with the following interface:

```
You are logged in as  JKL10              Time/Date  10:35  -   9Jun2012


                        Teasle's Hairdressing



                    1  -   Customers

                    2  -  Appointments

                    3  -      Tools

                    4  -       Exit



   Enter Option [1 to 4]>>>>>>>        _
```

6 (a) What type of computer interface is shown above?

....
(1 mark)

6 (b) Touch-screen technology is available for use in hairdressing salons.

Suggest an alternative type of interface to your answer in 6(a) that could be used to take advantage of this technology.

....

....
(1 mark)

6 (c) With reference to your answers given in 6(a) and 6(b), describe how the features of the two types of interface could be suitable for use by staff in hairdressing salons.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

Turn over ▶

....

....

....

....

....

....

....

....

(8 marks)

10

Turn over for the next question

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED

Turn over ▶

7 (a) A friend is setting up a small home network that is to have access to the World Wide Web.

What elements would be required to set up such a network and why would they be needed?

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

(8 marks)

7 (b)   Identify possible external threats to data that is stored on a network and explain how you would try to prevent them.

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

Turn over ▶

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

(8 marks)

7 (c) Explain why standards are needed when transferring data from one device to another on a network.

....

....

....

....

....

....

....

....

....

....

(4 marks)

20

Turn over for the next question

Turn over ▶

8 People have been subjected to blackmail, harassment, theft and fraud for centuries. ICT is not changing the types of crime committed, but has changed how they are committed.

Discuss this statement with reference to current ICT-related legislation and regulations that exist to try to prevent criminal activities.

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.   *(20 marks)*

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

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

Turn over ▶

Turn over ▶

END OF QUESTIONS

20