

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	



General Certificate of Education
Advanced Subsidiary Examination
June 2010

Information and Communication Technology **INFO2**

Unit 2 Living in the Digital World

Monday 24 May 2010 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. Use pencil only for drawing.
- 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.
- You will **not** gain credit for the use of brand names in your answers.



J U N 1 0 I N F 0 2 0 1

Section A

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

1 Describe, using an example for each, what is meant by an internal threat and an external threat to an ICT system.

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(4 marks)

4

2 Complete the following list of the components of an ICT system.

Data
Hardware

(4 marks)

4



3 Explain why the following types of processing are suitable.

3 (a) Transaction processing for recording withdrawals from ATMs.

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(2 marks)

3 (b) Batch processing for producing the staff monthly payroll in a large company.

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(2 marks)

3 (c) Interactive processing to allow the use of wizards in software packages.

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(2 marks)

6

Turn over for the next question

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4 How is the use of ICT affected by concern for the environment?

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(6 marks)

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5 Discuss the reasons why people away from the home and their workplace make use of wireless networking and any problems they might experience when using it.

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(8 marks)

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Section B

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

- 6 A national supermarket chain surveyed their customers and found that 10% of shoppers who left a store without making a purchase said that excessive waiting time at the checkout was the reason for their decision. The chain has decided to introduce self-service checkouts.

An example of a supermarket self-service checkout is shown below.



- 6 (a) The self-service checkout would be used by a variety of customers.

Discuss what should have been considered when designing the **interaction** for users of the self-service checkout shown above. (8 marks)

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6 (b) The self-service checkout makes use of a Graphical User Interface (GUI).

Explain why a GUI enables effective communication between users and the self-service checkout shown. *(6 marks)*

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7 The Head of the English department at a school needs some advice in order to modernise the way her department organises, stores and makes use of its teaching resources.

The department uses a wide range of resources including books, printed and electronic worksheets, presentations and films.

Using your knowledge of what ICT can provide explain, with examples, what advice you would give her. (12 marks)

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8 A student is planning to take a gap year before going to university in order to travel round the world. The local newspaper has promised to pay for an up-to-date multi-media account of her experiences, and her parents have agreed to the plan as long as she keeps in regular contact with the family.

Discuss how the student could communicate with friends, family and the newspaper whilst ensuring the safety and security of the data she is using.

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.

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Turn over ▶



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END OF QUESTIONS

20



There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED**

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