

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Education  
Advanced Subsidiary Examination  
June 2013

# Information and Communication Technology **INFO1**

## Unit 1 Practical Problem Solving in the Digital World

**Monday 3 June 2013 1.30 pm to 3.00 pm**

### For this paper you must have:

- your Sample Work and attach it with a completed and signed Candidate Record Form to this question paper/answer booklet at the end of the examination
- Insert for use with Question 6 (enclosed).

### 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 7 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.

**Warning** If you do not hand in both this question paper/answer booklet and your Sample Work it may not be possible to issue a result for this unit.

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
<b>TOTAL</b>	



J U N 1 3 I N F O 1 0 1

M/Jun13/INFO1

**INFO1**

**Section A**

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

- 1** Write the name of each device on the dotted line and then match the device to its use by drawing a line from one to the other.

**Device****Use**

To store records of  
family accounts



To view/store reading  
material



To capture  
examination marks



To produce an  
essay to hand in to a  
teacher

(6 marks)



- 2** A garden centre requires an input device to read barcodes on a range of items from seed packets to garden furniture.

Name and justify a suitable device(s) for the garden centre to use.

.....

.....

.....

.....

.....

.....

(3 marks)

3

- 3** One type of systems software is an operating system.

Describe other types of systems software.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

4

Turn over ►



**4** Choosing the right software to solve a problem using ICT is very important.

Give an example of a problem you have solved, stating the software you used and explaining how the functionality of the software helped you to produce an effective solution.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

7



**Section B**

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

- 5** Answer this question using the Sample Work that you have brought into the examination with you. For this question:
- you **must** give the page number of where the evidence for your answer may be found in your Sample Work.
  - you **must** write the question number in the margin of that page in your Sample Work.

- 5 (a) (i)** Give the page number in your Sample Work where you have identified who needed the solution.

Page.....

*In your Sample Work, write '5(a)(i)' in the margin of that page next to your evidence.*

With reference to your Sample Work, identify who needed the solution.

.....

.....

.....

.....

(2 marks)

- 5 (a) (ii)** Give the page number in your Sample Work where you have identified one of the people who will use your solution.

Page.....

*In your Sample Work, write '5(a)(ii)' in the margin of that page next to your evidence.*

With reference to your Sample Work, identify one of the people who will use your solution and describe what they will use it for.

.....

.....

.....

.....

.....

.....

(3 marks)

**Turn over ►**



Page.....

Test plans may include tests carried out for a number of reasons using normal, extreme and erroneous data.

With reference to your test plan, test data and testing evidence, describe and justify tests you have carried out for two different reasons.

[illegible]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(10 marks)

**Question 5 continues on the next page**

**Turn over ►**



The suitability of the output produced is one way of judging the effectiveness of a solution.

[illegible]

22





**6 (a)** Explain, using an example, what is meant by *verification*.

.....

.....

.....

.....

.....

.....

.....

.....

(3 marks)

**Question 6 continues on the next page**

**Turn over ►**



- 
- This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



.....

.....

.....

.....

.....

.....

.....

.....

(8 marks)

**Question 6 continues on the next page**

**Turn over ►**



- 6 (b) (ii)** In the space provided below, sketch a design for an online input screen to be used for entering the personal data for collection by Sporty Tours. (7 marks)



**Turn over for the next question**

**DO NOT WRITE ON THIS PAGE  
ANSWER IN THE SPACES PROVIDED**

**Turn over ►**



- 7 The articles below relate to the health problems that may arise when using computers and other electronic input and output devices.

'Many children are now using computers at home or school – or both. Few schools or homes provide proper workstations for children; furthermore, people become injured at "ergonomically correct" workstations every day because of improper posture and technique and sheer overuse of the hands.'

<http://www.rsihelp.com/children.shtml>

'Children learning to use computers are being put at risk of permanent injury, some health experts are warning. They say thousands of children have already been damaged by medical problems associated with the operation of computers.'

<http://news.bbc.co.uk/1/hi/health/1041677.stm>

Discuss the advice you could give parents concerning their children's use of ICT devices, the health problems that may arise and how those problems could be prevented.

In your answer use your knowledge of and experience with ICT devices and the fact that current health and safety legislation does not apply to children. (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.*



This image shows a full page of primary-ruled paper. It features 20 evenly spaced horizontal dotted lines across the entire page, providing a guide for handwriting practice. The lines are consistent in length and spacing, covering most of the page area.

A large rectangular box containing 25 horizontal dotted lines for writing.





[illegible]

[illegible]

(20 marks)

20



**There are no questions printed on this page**

**DO NOT WRITE ON THIS PAGE  
ANSWER IN THE SPACES PROVIDED**



**There are no questions printed on this page**

**DO NOT WRITE ON THIS PAGE  
ANSWER IN THE SPACES PROVIDED**

Copyright © 2013 AQA and its licensors. All rights reserved.

