AQA

General Certificate of Education
Advanced Subsidiary Examination
June 2012

Information and Communication Technology INFO1

Unit 1 Practical Problem Solving in the Digital World

Friday 25 May 2012   9.00 am to 10.30 am

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.

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.

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.

SECTION A

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

1   It is advisable to organise files on computers using a folder structure.

Draw a diagram to show a suitable folder structure that a student, who studies four AS levels, could use to organise their computer files into subjects, units in each subject and homework.

(3 marks)

3

2   Cloud storage, where data is stored on multiple virtual servers hosted by third parties, is the chosen storage method for many people.

Describe why they might choose cloud storage.

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(3 marks)

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3 Describe why a regular computer user needs a height-adjustable chair when they are working with ICT.

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(2 marks)

2

4 Complete the test plan below.

Test Number	Test Description	Test Data	Test Data Type	Expected Result
1	To test the range check of 100 – 2000 on customer number		Normal data	
2	To test the range check of 100 – 2000 on customer number	3400		
3	To test the presence check on the membership number on a members form.	No data		

(6 marks)

6

Turn over for the next question

Turn over ▶

5 Database Management Software can be used to perform many different tasks.

Identify a task for which Database Management Software would be suitable and explain how the functionality of the software would help to complete the task effectively.

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(6 marks)

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SECTION B

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

6 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.

6 (a) Give the page number in your Sample Work where you have identified your client.

Page…….
In your Sample Work, write '6(a)' in the margin of that page next to your evidence.

With reference to your Sample Work, explain what is meant by a *client*.

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(2 marks)

6 (b) Explain what is meant by an *audience* for an ICT solution.

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(2 marks)

Question 6 continues on the next page

Turn over ▶

6 (c)   Give the page number in your Sample Work where you identify your client's requirements.

Page…….
In your Sample Work, write '6(c)' in the margin of that page next to your evidence.

Explain what your client expects from your solution.

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(6 marks)

6 (d) Give the page number in your Sample Work where you interpret your client's requirements as inputs, processes and outputs.

Page.......
In your Sample Work, write '6(d)' in the margin of that page next to your evidence.

Describe the processes that you would need to implement in order to create the solution for your client.

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(8 marks)

Turn over ▶

6 (e) Give the page number in the **TESTING SECTION** of your Sample Work where your test plan starts.

Page.......
In your Sample Work, write '6(e)' in the margin of that page next to your evidence.

Explain, using examples from your test plan, how your testing ensured that you met your client's requirements successfully.

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(6 marks)

24

Turn over for the next question

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ANSWER IN THE SPACES PROVIDED

Turn over ▶

7   The Principal of Anytown Academy is concerned that the marketing of the school is poor and he would like you to design a website for prospective students and their parents.

What should you consider before you start your design and how would this impact on what you would need to include on the web pages?

You may use annotated diagrams if you wish.

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(16 marks)

Turn over for the next question

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> To be of any use at all a computer has to be able to take input, yet this basic idea can easily escape the modern computer user.
>
> It seems hard to believe that all computer input devices had once to be literally hardwired, for example, a scanner.
>
> Today there is a wide range of input devices available. For example, in computer gaming, a character can be controlled directly by the electrical impulses from a player's brain without the need for wires.

Discuss the above with reference to the range of input devices currently available. Your answer should include examples of where and how input devices can be used appropriately.

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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(20 marks)

END OF QUESTIONS

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There are no questions printed on this page

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