Surname

Other Names

Candidate Signature

AQA

General Certificate of Education
Advanced Subsidiary Examination
June 2014

Information and Communication Technology

INFO1

Unit 1   Practical Problem Solving in the Digital World

Monday 2 June 2014   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.

A

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 maximum mark for this paper is 80.
● The marks for questions are shown in brackets.
● 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.

Section A

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

1 A supermarket opened the first virtual store at a UK airport in 2012.

What input device could be used by customers to order the items they require from the virtual store?

[1 mark]

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2 Computers are used by many people for their work, including farmers.

Explain what a farmer might use a computer for and how that could be of benefit to him.

[6 marks]

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Turn over for the next question

Turn over ▶

3 Now that you have studied Health and Safety legislation relating to the use of ICT systems, explain what measures you could take to protect your health when using a computer.

[6 marks]

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4 Describe what **Figure 1** is an example of and how it can be used. Use examples to illustrate your answer.

[6 marks]

Figure 1

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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)   Give the page number in your Sample Work where you identify your Client's requirements.

Page...................

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

5 (a) (i) Give **one** requirement from your Sample Work for what the solution is to produce.

[1 mark]

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5 (a) (ii) Give **one** requirement from your Sample Work for how the solution is to work.

[1 mark]

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5 (b)   Explain how you would evaluate that a client's requirements had been met.

[4 marks]

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Question 5 continues on the next page

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5 (c) How did you find out about your user's IT skills? What use could you make of the information found?

[4 marks]

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5 (d) Give the page number in your Sample Work where you identify the inputs required for your solution.

Page...................

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

With reference to your Sample Work, what inputs were required, where did they come from and how were they entered?

[8 marks]

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5 (e) Give the page number in your Sample Work where your test plan starts.

Page...................

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

Explain your test plan.

[6 marks]

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6   On completion of the analysis of a problem the following two client requirements have been established:

1   The data input must be valid
2   The information output must be accurate

Discuss, using examples from an ICT system of your choice, how you would design and evaluate a solution to the problem that ensures these two requirements will be met.

[17 marks]

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7 IBM Industry Solutions Executive, Dr Simon Eassom, said, 'If we have access to every book available online, why does a school need a library? IT has the potential to revolutionise what we do with teaching and learning at all levels, from nursery to old age. If the classroom is the World Wide Web (WWW), where is the classroom?'

Discuss.

[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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END OF QUESTIONS

There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED