Centre Number						Candidate Number					

Surname	
Other Names	
Candidate Signature	

AQA

General Certificate of Education
Advanced Subsidiary Examination
June 2011

Information and Communication Technology **INFO1**

Unit 1 **Practical Problem Solving in the Digital World**

Friday 27 May 2011   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
● 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.
● You will **not** gain credit for the use of brand names in your answers.
● 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   State **two** input devices that can be used with a games console.

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(2 marks)

2

2   For each of the following tasks, name and justify what you consider to be a suitable output device to use.

The output devices you give for each task must be different.

2 (a)   Displaying your holiday photographs

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(2 marks)

2 (b)   Playing your latest music download

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(2 marks)

2 (c)   Producing an ICT essay

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(2 marks)

6

3   A software developer must consider the health and safety guidelines that apply to the use of software. Functions can be added to the software to try to prevent health problems.

For each of the following health problems, state a software function and how that software function would help to prevent it.

RSI (Repetitive Strain Injury)

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Stress

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(4 marks)

4

4   Presentation software can be used to produce many different types of presentation.

Give an example of a presentation that you have created and explain how the functionality of the presentation software helped you to prepare it effectively.

(6 marks)

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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 have included your problem identification.

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

With reference to your Sample Work, explain what you included in your problem identification.

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(6 marks)

Turn over ▶

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

Page ....

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

Explain, using examples of your client's requirements, why you needed to identify and clearly document what these requirements were.

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(6 marks)

5 (c) One reason for testing a solution is to ensure validity of data input.

What other reasons are there for testing?

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(3 marks)

Question 5 continues on the next page

Turn over ▶

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

Page ....
In your Sample Work, write '5(d)' in the margin of the page where your test plan starts.

With reference to your test plan, test data and testing evidence, describe and justify tests you have carried out for **two** different reasons.   *(10 marks)*

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Turn over for the next question

Turn over ▶

6   Your local under-16 sports team are setting up a website.

The purpose of the website is to provide information on match dates, match results, the location of the sports club, the history of the sports club and sponsorship opportunities. The audience that they hope to reach would include current players, their parents, the team management and other teams in the under-16 league.
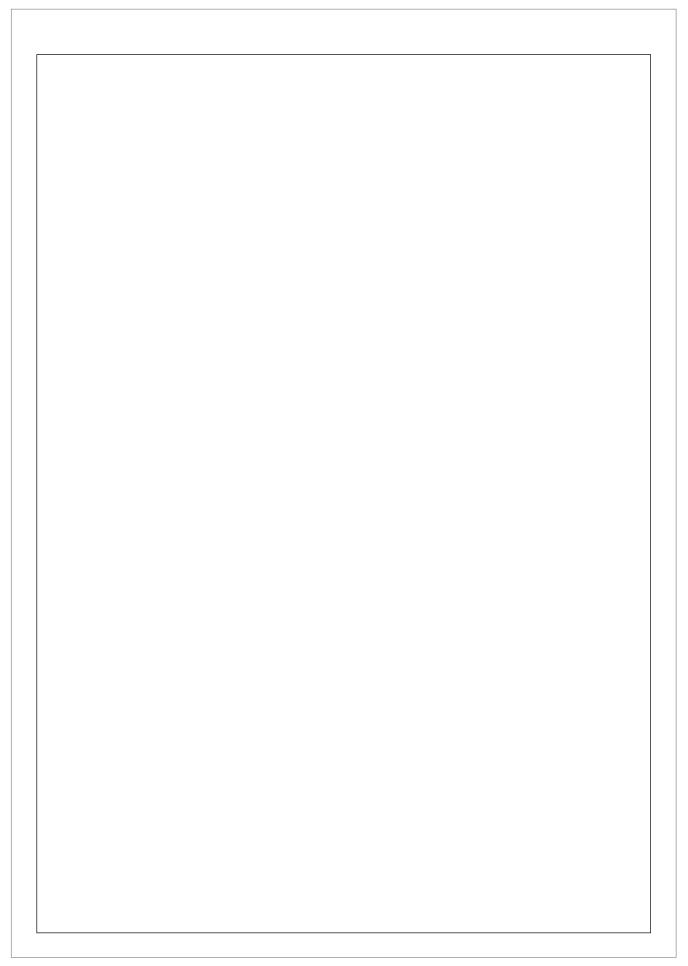
They have provided you with a selection of the type of images, which you could use. These are shown on the insert.

In the box provided on the facing page sketch a design for the homepage showing:
- the types of images you plan to use
- other objects you are including
- where objects would be positioned.

In the space below justify your design, explaining how and why the objects in your design are used. Continue on page 12 if necessary.   *(17 marks)*

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Turn over for the next question

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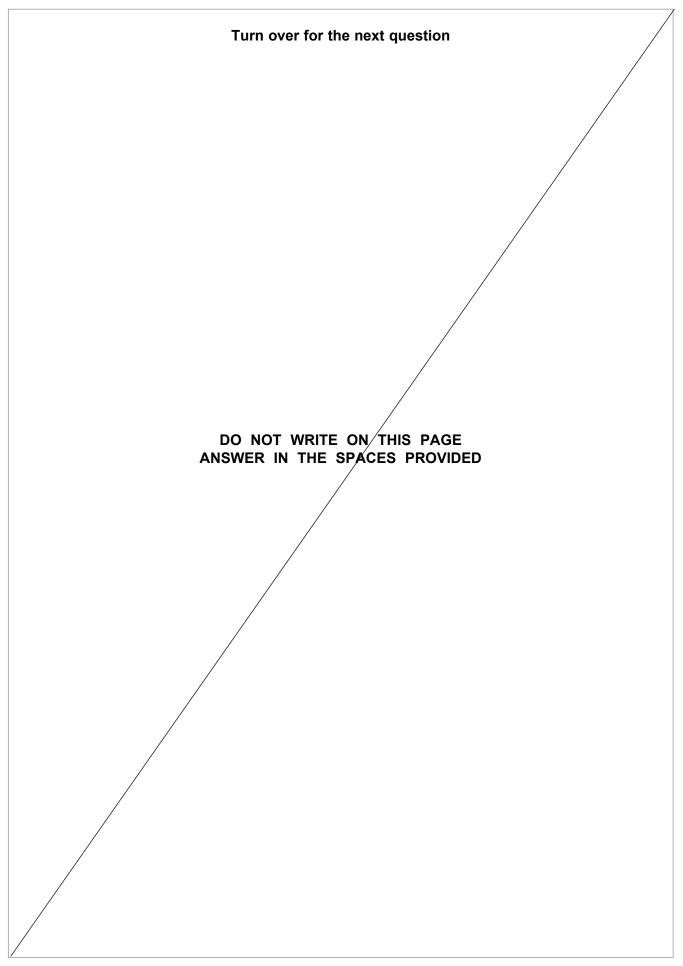ANSWER IN THE SPACES PROVIDED**

Turn over ▶

7   The mobile phone has become the most commonly used ICT device in the world today because of the range of software applications that can be used on it.

Discuss this statement, including in your answer examples of software applications that can be used on mobile phones.

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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END OF QUESTIONS

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ANSWER IN THE SPACES PROVIDED**

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