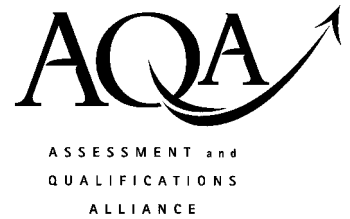


General Certificate of Education  
June 2007  
Advanced Level Examination



**INFORMATION AND COMMUNICATION TECHNOLOGY ICT5**  
**Unit 5 Information: Policy, Strategy and Systems**

Tuesday 19 June 2007 9.00 am to 11.00 am

**For this paper you must have:**

- a 16-page answer book.

Time allowed: 2 hours

**Instructions**

- Use blue or black ink or ball-point pen.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is ICT5.
- Answer **all** questions.
- Do all rough work in your answer book. Cross through any work you do not want to be marked.

**Information**

- The maximum mark for this paper is 90.
- The marks for questions are shown in brackets.
- You will **not** gain credit for the use of brand names in your answers.
- Question 9 should be answered in continuous prose. 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.

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Answer **all** questions.

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- 1 State **three** responsibilities of a database administrator. (3 marks)
- 2 Give **four** reasons why a large organisation should have an Information Technology Policy. (4 marks)
- 3 Explain what is meant by the terms *alpha testing* and *beta testing*. (6 marks)
- 4 A Personal Assistant to a senior manager leaves a job where he used a stand-alone desktop computer, and begins a new job where the computer he uses is on a network. There are differences between the old interface and the new one.
- (a) Describe **one** difference that he may notice between the old and new user interfaces for:
- (i) the security of the system (2 marks)
  - (ii) control of the software used (2 marks)
  - (iii) control of the files that can be accessed (2 marks)
  - (iv) access rights to resources. (2 marks)
- (b) All activities on the network are logged automatically. Give **two** reasons why this is done. (2 marks)
- 5 (a) What is meant by the term *standard* in an ICT context? (2 marks)
- (b) Give **two** examples within ICT where standards are used and, for each example, explain why a standard is used. (6 marks)
- (c) The Internet is an example of a wide area network. When data is transferred across the Internet, standard protocols are used.
- (i) What is meant by the term *protocol*? (2 marks)
  - (ii) Give **two** reasons for using protocols. (2 marks)

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- 6 The designers of spreadsheet software must consider the psychological factors that affect the way in which the user will interact with the spreadsheet software.

State **four** psychological factors the designers should consider and, for each one, use an example to show how this factor could be considered in the design of the spreadsheet software. (12 marks)

- 7 Many organisations create their own intranet.

Give **four** activities for which an organisation can make use of an intranet and, for each one, state why using the intranet is a benefit to the organisation. (8 marks)

- 8 (a) One method of providing a Human/Computer Interface (HCI) is to make extensive use of menus.

(i) Name **one** example of where menus are used as a main feature of an HCI. (1 mark)

(ii) Describe **four** reasons why menus are appropriate for the example you have given. (8 marks)

- (b) A sophisticated HCI makes high use of some system resources.

Name **three** such system resources and, for each one, state why a sophisticated HCI makes high demands on it. (6 marks)

- 9 You are the ICT manager responsible for the information systems in a large college. The governors of the college have been told that the software used to manage examinations no longer has the required functionality and must be replaced. You have been asked to advise the governors on alternative software solutions.

Discuss what you would do in order to make a recommendation. Your discussion should include:

- how you will establish the requirements
- the criteria you will use to evaluate possible software solutions
- how you will match software capabilities to the requirements
- the content of the evaluation report you will write for the governors.

*The quality of written communication will be assessed in your answer.* (20 marks)

**END OF QUESTIONS**

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