

General Certificate of Education
June 2006
Advanced Subsidiary Examination



INFORMATION AND COMMUNICATION TECHNOLOGY ICT1
Unit 1 Information: Nature, Role and Context

Thursday 8 June 2006 1.30 pm to 3.00 pm

For this paper you must have:

- a 12 page answer book

Time allowed: 1 hour 30 minutes

Instructions

- Use blue or black ink or ball-point pen. Use pencil only for drawing.
- Write the information required on the front of your answer book. The *Examining Body* for this paper is AQA. The *Paper Reference* is ICT1.
- Answer **all** questions.

Information

- The maximum mark for this paper is 60.
- The marks for questions are shown in brackets.
- You will **not** gain credit for the use of brand names in your answers.
- You are reminded of the need for good English and clear presentation in your answers.

Answer **all** questions.

1 E-mail can be sent from a PC.

Name **two** other devices that can be used to send e-mails. *(2 marks)*

2 Every ICT task involves the input of data, which is processed and then information is output.

Using an example of an ICT task with which you are familiar:

(a) state what the task is; *(1 mark)*

(b) give **one** example of data that is input, stating how it is input; *(2 marks)*

(c) describe **one** process needed to fulfil the task; *(2 marks)*

(d) give **one** example of information that is output, stating how it is output. *(2 marks)*

3 A dental practice keeps records of all its patients in a database. Reminders are sent out to patients when they are due to have a check up. The practice has a policy of deleting from the database the details of those patients who have not made an appointment after they have been sent two consecutive reminders.

Explain why the dental practice has this policy. *(3 marks)*

4 A large company has many employees who telework. This has benefits and limitations.

(a) State **two** benefits and **two** limitations to the employer. *(4 marks)*

(b) State **one** benefit and **one** limitation to the employee. *(2 marks)*

(c) Describe **one** effect of teleworking on society as a whole. *(2 marks)*

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- 5 A company, which sells goods over the Internet, purchased a list of e-mail addresses in the year 2004.
- (a) Explain why it was of benefit to the company to purchase a list of e-mail addresses. (2 marks)
 - (b) Explain a limitation to the company of using this list. (2 marks)
 - (c) The company also has data of a personal nature that it wishes to sell.
 - (i) Whose permission must it first obtain? (1 mark)
 - (ii) Whom should the company inform of its intentions? (1 mark)
- 6 When producing a requirements specification for an ICT solution to a task, an ICT professional needs to use certain personal skills.
- Give **three** such personal skills and state why each of them will be of use to the ICT professional when preparing the requirements specification. (6 marks)
- 7 An employee illegally copies a piece of software and takes it home. The employee has committed a crime.
- (a) Give **two** other examples of crime involving the use of ICT. (2 marks)
 - (b)
 - (i) Explain what is meant by *malpractice* in relation to ICT. (2 marks)
 - (ii) Give **two** ICT examples of malpractice. (2 marks)
- 8 Examination boards publish past examination papers and mark schemes on the Internet.
- (a) State **two** benefits to an examination board of doing this. (2 marks)
 - (b) State **two** benefits to a teacher of making use of this facility. (2 marks)

Turn over for the next question

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- 9** A company provides all new employees with an induction booklet that includes rules for working with ICT equipment and systems.
- (a) State **four** health and safety rules that might be included in the induction booklet. *(4 marks)*
- (b) The induction booklet also includes rules to protect the company's data.
State **two** possible rules, and explain how each one could help to protect the data. *(4 marks)*
- 10** For each of the following areas, state **one** benefit and **one** limitation of the use of ICT. Your benefits and limitations must be different in each case.
- (a) Education *(2 marks)*
- (b) Leisure in the home *(2 marks)*
- (c) Manufacturing *(2 marks)*
- (d) Medicine *(2 marks)*
- (e) An office *(2 marks)*

END OF QUESTIONS