

General Certificate of Education  
June 2005  
Advanced Subsidiary Examination



**INFORMATION AND COMMUNICATION TECHNOLOGY    ICT2**  
**Unit 2 Information: Management and Manipulation**

Thursday 9 June 2005    Afternoon Session

**In addition to this paper you will require:**  
a 12-page answer book.

Time allowed: 1 hour 30 minutes

**Instructions**

- Use a 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 ICT2.
- Answer **all** questions.

**Information**

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

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Answer **all** questions.

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1 State **three** formatting facilities that are offered by word-processing software.

*(One word answers are acceptable for this question.)*

*(3 marks)*

2 Passwords, entered at a keyboard, are often used as a method of protecting data against malicious or unauthorised access.

Give **two** other methods of preventing malicious or unauthorised access to data.

*(2 marks)*

3 A company has procedures to backup the data files held on its computer system on a regular basis so that data can be recovered if it is lost or corrupted.

Give **three** other items that need to be considered for the recovery procedure that should also be in place.

*(3 marks)*

4 (a) Explain, using a suitable example, what the term *batch processing* means.

*(3 marks)*

(b) Explain, using a suitable example, what the term *transaction processing* means.

*(3 marks)*

5 Describe the characteristics of a natural language interface. Illustrate your answer with **two** different examples of the use of this type of interface.

*(4 marks)*

6 A system contains several flat files that are to be replaced by a relational database.

(a) Describe **two** problems that can occur when data is stored in flat files.

*(4 marks)*

(b) Give **three** features that would be available when using relational database management software for the updating and retrieval of data.

*(3 marks)*

7 A new scanner is supplied with a set of drivers. These drivers are provided on a CD-ROM, together with Optical Character Recognition (OCR) software for use with the scanner.

(a) State **three** functions of a scanner driver.

*(3 marks)*

(b) Give **one** reason why the drivers are not provided on a floppy disk.

*(1 mark)*

(c) Give **one** other method of providing the scanner drivers.

*(1 mark)*

(d) Describe **one** advantage of using OCR software.

*(2 marks)*

- 8** A small company is purchasing new computer hardware and software.
- (a) Name and describe **three** items of software that the company could buy. Include in your answer why each item would be required. *(9 marks)*
  - (b) State **two** types of printer that the company could purchase, and give an advantage of each type. *(4 marks)*
- 9** A company takes hotel bookings over the Internet. An on-line reservation form has to be completed.
- (a) State **three** fields other than Surname, Address and Postcode that you would expect to find on the reservation form. *(3 marks)*
  - (b) Name and describe a suitable validation check for each field that you have chosen. All your validation checks must be different. *(6 marks)*
- 10** A school has a Local Area Network (LAN).
- (a) Describe **two** advantages to the students of using a LAN rather than stand-alone computers. *(4 marks)*
  - (b) State **two** disadvantages to the students of using a LAN rather than stand-alone computers. *(2 marks)*

**END OF QUESTIONS**

**THERE ARE NO QUESTIONS PRINTED ON THIS PAGE**