

General Certificate of Education
Advanced Subsidiary Examination

Information And Communication Technology
Module ICT2

Module Test

Time

- 1 hour 30 minutes

Information for candidates

- Answer all the questions on this paper
- The number of marks is given in brackets at the end of each question or part question
- The maximum mark allocation for this paper is 60.

- 1 Give two functions that should be incorporated into a software package to prevent accidental deletion/alteration of data. (2)
- 2 Modern personal computer systems usually include a CD-Rewriter.

State two legal uses for a CD-Rewriter. (2)
- 3 State two advantages and two disadvantages of using a computer on a server based network rather than stand-alone. (4)
- 4 All employees of a company have an eight-digit password to access the company's computer network.

State three rules that the employees should follow to ensure the effective use of the password system. (3)
- 5 A large national bank updates customers' bank accounts overnight with deposits made during the previous day.
 - (a) Name an appropriate type of processing that the bank could use for this operation. (1)
 - (b) Give three features of this type of processing. (3)
- 6 Explain the difference between the terms verification and validation when applied to data. Illustrate your answer with an example of each. (4)
- 7 Applications software can be described as being generic package software, specific package software or bespoke software.

Describe, using examples, the characteristics of these three types of software. (The use of brand names will not gain credit.) (9)
- 8 A small business has been forced to purchase new computer hardware and software to replace its 10 year old system which has been destroyed in a fire.
 - (a) Describe four items of software that the company will need to buy, explaining why each item is required. (The use of brand names will not gain credit.) (8)

- (b) The staff have used the old system successfully for the past 10 years. Give two reasons why it will be necessary for the company to provide training for all its members of staff on the new system. (2)

- 9 A flat file system is used to store orders taken by an electrical retailer. Examples of records from the file are shown below.

Customer	Address	Order No	Date of Order	Item No	Description	Price	Phone No	Sales Staff No	Sales Person
Paul Smith	38 Beech Road	2345	4/11/2001	456	Steam Iron	£35.45	01234-665577	78	Sue Sneath
Anne Chu	27 Ash Square	2359	4/11/2001	764	Toaster	£19.99	01234-897645	62	Bert Jones
Anne Chu	27 Ash Square	2359	4/11/2001	798	Kettle	£19.99	01234-897645	62	Bert Jones
Sean Page	19 Elm Lane	2361	5/11/2001	461	Microwave Oven	£125.00	01234-567483	78	Mrs Sneath
Joan Patel	16 Oak Close	2362	5/11/2001	764	Toaster New	£15.99	01234-192837	78	Sue Sneath

- (a) Referring to the examples above, describe the problems that have occurred by storing the data in a single flat file. (6)
- (b) The flat file system is to be replaced by a relational database. What structures would be needed in this database to allow for the effective updating and retrieval of data? (4)
- 10 A mail order company receives orders from its customers, handwritten on pre-printed forms. These are then used by clerks to enter the data into a computerised system. A sample blank customer order form (Figure 1) and input screen (Figure 2) are shown on the loose insert provided with this question paper.
- (a) With reference to Figure 1 and Figure 2, describe three features of the input screen that provide an effective human/computer interface. (6)
- (b) Identify three data items that the software will enter automatically and, for each item, state the event that triggers the automatic entry. (6)

END OF QUESTIONS

Figure 2

Input Screen

Order Number

Date

Customer Number*

Title

Forename

Surname

Address

Postcode

* Red labels are ESSENTIAL items

Item Code*	Description	Unit Cost	Quantity*	Total

Order Total

New Customer

Submit

Cancel

Next Order