

- 1 State two modes of processing and, for each one, give a suitable example of its use. (4 marks)
- 2 Data can be encoded and encrypted.
- (a) Describe what *data encoding* means. (2 marks)
- (b) What is meant by the term *encryption*? (2 marks)
- 3 (a) Most mobile phones make use of a menu driven interface.
- Give **two** benefits of a menu driven interface for mobile phone users. (2 marks)
- (b) State **two** other types of user interface and give a suitable example of use for each one. (4 marks)
- 4 All the employees of a company have to use an eight-character password to access the company's computer network. The employees have been given a set of rules that they should follow to ensure that the password system is an effective security measure.
- (a) State two rules that an employee should follow when choosing his password. (2 marks)
- (b) State two rules that an employee should follow to ensure that his password is kept secret. (2 marks)
- (c) State **one** procedure that an employee should follow to ensure that the network cannot be accessed without entering a correct password. (1 mark)
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- 5 (a) Explain what the term *system software* means, and give an example of an item of system software. (3 marks)
- (b) Explain what the term *generic package software* means, and give an example of generic package software. (3 marks)
- (c) Explain what the term *bespoke software* means, and give an example of bespoke software. (3 marks)
- 6 A company is having a sixteen-station Local Area Network (LAN) installed.
- (a) Describe what is meant by the term *Local Area Network*. (2 marks)
- (b) Give **two** suitable topologies for the LAN and, for each one, draw a labelled diagram to show its structure. (6 marks)

(c) State **three** items of hardware and/or software that could be needed

if the LAN is to be connected to the Internet.

(3 marks)

7 A company is replacing the personal computers used by its employees. Each employee has been offered the choice of a laptop or a desktop computer.

For each of the following types of computer, describe **one** advantage to an employee of choosing it. The advantage must be different in each case.

(a) A laptop computer

(2 marks)

(b) A desktop computer

(2 marks)

Turn over for the next question