1.4 System Software: 10-minute Pack

OCR J277 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 State two examples of utility software, other than encryption, defragmentation and compression software.

(Total for Question 1 is 2 marks)

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2 A memory address is given in hexadecimal as 2C.

(a) Convert this address to denary. **(1)**

(b) Show that 44 in denary converts to 00101100 in 8-bit binary. **(2)**

(Total for Question 2 is 3 marks)

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3 Which one of these is NOT a standard function of an operating system?

- ☐ A) Memory management
- ☐ B) Peripheral management
- ☐ C) Compiling source code into machine code
- ☐ D) User management

(Total for Question 3 is 1 mark)

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4 Explain the purpose of user management within an operating system.

(Total for Question 4 is 3 marks)

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Mark scheme · 1.4 System Software: 10-minute Pack

Question 1

any one valid different example, e.g. anti-malware/anti-virus software / backup software / disk clean-up software / firewall software oe **B1**

any second, different valid example from the same list oe **B1**

Answer: Any two from: anti-malware/anti-virus software; backup software; disk clean-up software; firewall software.

Question 2

(a) 44 cao **B1**

(a) Answer: 44

(b) correct place values used (128 64 32 16 8 4 2 1) and 44 = 32 + 8 + 4 **M1**

(b) 00101100 shown as the final answer, cso (answer given in the question) **A1**

(b) Answer: 00101100

Question 3

C cao **B1**

Answer: C

Question 4

allows different user accounts to be set up on the same computer, each usually requiring a username and password to log in oe **B1**

allows each user to have their own personal settings/files, kept separate/private from other users oe **B1**

allows different levels of access/permissions to be set for different users, e.g. an administrator account can install software or change settings that a standard user account cannot oe **B1**

Answer: User management allows separate user accounts to be created on the same computer, typically requiring a username and password to log in. Each account can have its own personal files and settings, kept private from other users. It also allows different levels of access to be given to different accounts, for example an administrator account can install software or change system settings, which a standard user account is not permitted to do.

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