EDULiTO

Systems Software

Topic Tests

Photocopiable Resources

Terms and Conditions of Use

Topic Test - Systems Software

1. What is the purpose of systems software? [2]

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2. Give FOUR examples of operating systems. [4]

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3. Describe three common features of an operating systems graphical user interface (GUI). [3]

Feature 1 ………

Feature 2 ………

Feature 3 ………

4. How does an operating system manage memory? [2]

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5. Operating systems use multi-tasking. What is multi-tasking? [1]

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6. If a computer is to print a document the operating system requires a printer driver. What

is a printer driver? [2]

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7. (a) Explain how an operating system manages users? [1]

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(b) Explain how does an operating system supports file management? [1]

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8. (a) What is encryption utility software? [1]

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(b) Explain, using an example, how encryption utility software might be used by a company. [2]

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9. Explain what causes fragmentation of a mass storage device and how defragmentation can be used to alleviate this problem. [3]

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10 (a) What is backup software? [2]

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(b) Using an example, explain how backup software is used. [1]

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(c) How does your school back up your files? [1]

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(d) What is an incremental backup and what are the advantages of performing an incremental backup? [1]

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Question Number	Answer	Additional Guidance	Mark
	Topic Test - Systems Software - Mark Scheme		
1	System software forms an interface between software applications, such as a word processing program or an Internet browser [1], and computer hardware, including peripherals such as printers.[1]		**2**
2	Microsoft Windows 10 [1] Linux [1] OS X [1] iOS [1] Android [1]	**Max 4**	**4**
3	Windows [1] Icons [1] Menus [1] Pointer [1]	**Max 3**	**3**
4	• It helps to keep track of each and every memory location [1] • It checks how much memory is to be allocated to processes. [1] • It decides which process will get memory at what time. [1] • It transfers programs into and out of memory [1] allocates free space between programs [1] • keeps track of memory usage [1]	**Max 2**	**2**
5	Multi-tasking is performing multiple tasks (processes) over a certain period of time by executing them concurrently. [1]		**1**
6	A program that controls the operations of a printer. [1] Whenever you print a document, the printer driver feeds data to the printer with the correct control commands. [1]		**2**
7 a	Operating systems can manage users, providing individualised, secure accounts for each user. [1]		**1**
7 b	Creates a file system to organise files and directories [1]		**1**
8 a	Encryption utility software is system software designed to encrypt data on a computer. [1]		**1**

8 b	Encryption utility software might be used by a company to prevent third parties from viewing any of the original data. [1]	Any relevant example 1 mark	**2**
	This is particularly important for sensitive data like social security numbers. [1]		
9	The files on a hard drive often becomes fragmented i.e. in non-contiguous locations. [1]	Max 2	**2**
	Defragmentation is a process that reduces the amount of fragmentation. [1] It does this by physically organizing the contents of the mass storage device used to store files into the smallest number of contiguous regions (fragments).[1]		
10 a	Backup software is a computer program used to create exact copies of files, databases or entire computers. [1] These programs may later use to restore the original contents in the event of data loss.[1]		**2**
10 b	Any reasonable example [1]		**1**
10 c	Any reasonable example [1]		**1**
10 d	A security copy which contains only those files which have been altered since the last full backup. [1]		**1** **/26**