## Mark scheme

Question		on	Answer/Indicative content			Guidance
	а		1 mark for function and	1 name for task		BOD storage for memory in the first function.  Peripheral: allow input and output devices by example.  File management, do not award folder management.  The task for peripheral management needs to extend 'manage' i.e. 'manage output devices' is NE.
			Function	Task		
			Memory management / managing memory	managing memory  storage to RAM  Receiving data from input devices  Transmitting data to output devices  Installing/downloading device drivers  Allows communication from input device / to output device		
1			Peripheral management		4	
			File management / managing Allows the user to create, name and delete folders		Examiner's Comments	
			User interface	Outputting data to the user  Receiving input from the user  Allows user to communicate / interact with / control the computer  Creating / displaying / allowing interaction with a GUI / command prompt interface		Candidates were often able to identify the function of memory management and file management for the given tasks.  Few candidates were able to identify a task performed by peripheral
						management. Candidates often rephrased 'peripheral

			management' for example stating that it managed the peripherals or managed the hardware without identifying what this involved. The stronger responses identified the role of device drivers to allow for communication between the computer and the peripherals.  Candidates often gave a suitable task for the user interface, most commonly that it allowed the user to communicate with the computer or hardware.
۵	encryption software changes data using a key. If the changed data is intercepted it cannot be understood. This software does not stop the data from being intercepted.  defragmentation software analyses the data on a disk to find files that have been split and stored in separate locations. The split files are moved to be consecutive in storage and the free space is moved together. This does not provide more storage space on the disk, instead it makes the access of the data faster because the read head does not have to move as far to access the next part of the file.	6	Encryption Key Understood Defragmentation Consecutive Access Mark first answer in each space.  Examiner's Comments  Candidates were often able to accurately identify some of the missing words. The spaces for encryption were more often

3	а	<ul> <li>1 mark per bullet to max 3</li> <li>Takes less time to read/access a file because the data/files/pages are</li> </ul>	3	
		Total	1	
2		Performs housekeeping actions     Monitor / manage / maintain a computer system     Help the computer run smoothly/efficiently     To diagnose/fix/identify problems with a computer system	1	Do not award example on its own  Examiner's Comments  Some candidates gave an example of utility software and described the purpose of that software instead of utility software in general. For example, a candidate gave defragmentation, or file management as the need.
		Total	10	accurate, with a common error being the use of a lock to change the data instead of a key.  Candidates often identified defragmentation accurately but the remaining spaces were more often inaccurate with access or separate often given in the next space.

		•	so it does read the nex because it ocation Takes less to because the cogether so it does and can se spaces	at piece of the is in the resident to savere is large to the not need to the interest the interest in the is large.	data/file/pa next memo e new data r free spac to split the	age ry a/files ee data/file		
		Action	Memory	Peripheral management	File management	User management		
		Creating new folder to store documen in	a r		√	<b></b>		
	b	Moving data from Virtual Memory to RAM	✓				5	No mark awarded if 2+ ticks on each row
		Renamine a file	9		<b>√</b>			
		Reading data from a scanne		<b>√</b>				
		Changing the password required to log on to the computer	0			✓		
		Total					8	
4	а	;	Orders have been saved onto the system as they order food and then deleted once processed (1)			4 (AO2 1b)	Up to a maximum of 4 marks. A maximum of three marks if	

	<ul> <li>Once other orders have been made, new files are created (1) which may be bigger than the spaces left by the deleted files (1)</li> <li>The order files are split up (1)</li> </ul>		there is no contextualisation. Allow a mark if candidates state that fragmentation increases access time. (1)
b	<ul> <li>Files on the hard disk drive are moved (1)</li> <li>Empty spaces collected together (1)</li> <li>Files are moved to be stored together (1)</li> <li>Fewer disc accesses are needed (1)</li> </ul>	3 (AO1 1b)	Up to a maximum of 3 marks.
	Total	7	