From teacher guidance

Topic	Amplification	Teacher Guidance
Managing resources	Describe the purpose and functionality of the operating system in managing resources, including peripherals, processes, memory and backing store.	The O/S manages resources, such as: • Manages peripherals such as input and output devices • Manages printing using spooling • Manages backing store • File compression • Disk de-fragmentation • Manages memory (RAM) • Manages processes • Manages security
Providing an interface	Describe the purpose and functionality of the operating system in providing a user interface.	The O/S provides an interface by: • Provides a graphical user interface (windows, icons, menus, pointers) • Provide a command line interface • Allowing users to copy/delete/move/sort/search a file or folders • Access system settings such as hardware. • Allows users to have more than one window open • Provides user with errors/help messages. • Allows customisation of interface, e.g. change desktop background/layout • Allows user to switch between tasks (programs/windows)

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Identify and describe **four** roles of the operating system when managing the resources of a personal computer. [8]

Role 1 ....

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Role 2 ....

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Role 3 ....

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Role 4 ....

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Three resources managed by an operating system are output devices, the backing store and Central Processing Unit (CPU).

Describe the role of the operating system when managing **each** of these resources.

[3]

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12. The operating system is a suite of system programs that manages a computer's resources.

Explain how the operating system manages:

(a) Multi-tasking [3]

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(b) Interrupts [2]

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