

7(a)(i)	D
7(a)(ii)	One mark for identifying a function. One mark for a matching description. For example: • Memory management • ... managing what gets allocated where in memory • Managing peripherals and drivers • ... managing the communication between any input and output devices that are connected to the computer • Multitasking • ... managing the process of switching between tasks that are being carrying out • Platform for running applications • ... allowing communication between the applications software and the hardware • System security • ... proving features such as username and password • User accounts • ... allowing multiple user accounts to be created on a computer
7(b)	Any one from: • Firmware • Bootloader • BIOS • Bootstrap

1(a)	Instructions/program that is used to operate a computer/hardware
1(b)	B
1(c)	Operating system // system software

3(a)	Any two from: • Low-level language • Uses mnemonics • Used to communicate directly with the computer hardware
3(b)	Assembler
3(c)	B

7	Any four from: • It is a piece of software • ... used to write/develop/edit code • ... used test/debug the code • ... with features such as auto-completion // any suitable example • To translate the code to low level language/machine code
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6(a)	Any one from: • Permanently store instructions (in ROM) • Stores instructions to boot up/start up the computer • Provides the operating system with a platform to run on • Controls/manages/allows communication with hardware • Store instructions securely (to stop them being easily corrupted)
6(b)	Any one from: Example: • Bootstrap • Bootloader • BIOS • Operating system (in embedded system) • Programs (in embedded systems)
6(c)	Any two from: • Operating system • Utility software NOTE: Two examples of utility software can be awarded

4	One mark for each correct term in the correct place: • System • Application • Operating • Hardware
7(a)	Any two from: • Close to the language processed by computers • May use mnemonics • An example is assembly language/machine code
7(b)	Any two from: • Can directly manipulate the hardware • No requirement for the program to be portable • Program will be more memory efficient • No requirement for a compiler/interpreter • Quicker to execute • Can use specialised hardware