

1	1	Mark is for AO1 (knowledge) System Software; R. More than one lozenge shaded	1
1	2	Mark is for AO1 (knowledge) Mark as follows: Processors A. CPU; Memory / Memories A. RAM; I/O devices (among competing processes) A. examples; A. Hardware Max 1	1
1	3	Mark is for AO1 (knowledge) The role of the operating system is to hide the complexities of the hardware from the user; A. other reasonable answers that are not resource management.	1

2	1	Mark is for AO1 (knowledge) The electronic / electrical / physical / mechanical components of the computer system; NE. Tangible without further explanation.	1
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2	2	Mark is for AO1 (knowledge) Instructions / code / programs;	1
2	3	Marks are for AO1 (understanding) System software is software that controls/manage the operation of (some aspects of) the computer system // software which enables user to operate a computer // system software is required to operate a computer; Application software is for carrying out tasks that are user-oriented / that the user would want to do even if they did not have a computer system;	2
2	4	Marks are for AO1 (knowledge) 1 mark for Compiler checked 1 mark for Operating system checked R. Award 0 marks if more than two lozenges shaded	2

Qu	Pt	Marking Guidance	Marks
3	1	Mark is for AO1 (knowledge) Software is the name given to programs / code / instructions that are executed;	1

Qu	Pt	Marking Guidance	Marks
3	2	Marks are for AO1 (knowledge) Operating systems / OS; Utility programs; Libraries; A. Specific examples of utilities (such as virus checker, disk defragmenter) unless the student has already given the type utilities as a response. R. Interpreters, compilers, assemblers. MAX 2	2

Qu	Pt	Marking Guidance	Marks
4	1	<p>Marks are for AO1 (knowledge) and AO1 (understanding)</p> <p>Mark as follows:</p> <p>AO1 (knowledge) – 1 mark: Max 1 mark for explaining the term</p> <p>Provides routines that can be included/used in a program;</p> <p>AO1 (understanding) – 1 mark: Max 1 mark for a reason/need for library</p> <p>Improves the speed of development // reduces workload // requires (writing of) less code; Improves reliability; Provides operations that the programmer may not know how to code themselves;</p>	2

Qu	Pt	Marking Guidance	Marks
5	1	<p>Mark is for AO1 (Knowledge)</p> <p>(Main) memory (A. RAM); Secondary storage (A. example of secondary storage device); I/O devices (A. example I/O device);</p> <p>R. Processors. R. File system. R. Scheduling.</p>	1

Qu	Pt	Marking Guidance	Marks
6	1	Mark is for AO1 (knowledge) C (Programming language translator);	1

Qu	Pt	Marking Guidance	Marks
6	2	<p>Marks are for AO1 (knowledge)</p> <p>Processor // microprocessor // central processing unit // CPU;</p> <p>Main memory // random access memory // RAM; A. Memory controller</p> <p>Secondary storage // backing store; A. HDD // SSD</p> <p>Cache; A. Cache controller</p> <p>Power supply unit // battery management // PSU;</p> <p>R. Software-implemented resources (eg scheduler, virtual memory, file management)</p> <p>Max 2</p>	2