**Q1.**

An operating system is designed to hide the complexities of the hardware from the user and to manage the hardware and other resources.

State **three** different types of management of either hardware or other resources that are performed by an operating system.

Type 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Type 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Type 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(Total 3 marks)**

**Q2.**

(a)     The table below lists some components of a computer system.

Put **one** tick on each row to identify each component as either:

•        software

•        hardware

•        hardware and software.

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Software** | **Hardware** | **Hardware and software** |
| Wireless router |   |   |   |
| Compiler |   |   |   |
| Keyboard |   |   |   |

**(3)**

(b)     System software performs the tasks needed to operate the hardware. The operating system and library programs are system software.

(i)      State **one** role of the operating system.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(1)**

(ii)     State **one** purpose of library programs.

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**(1)**

(c)     A company is looking at purchasing some bespoke software to help them run their ordering and purchasing activities.

(i)      State **one** advantage of purchasing bespoke software.

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**(1)**

(ii)     State **one** disadvantage of purchasing bespoke software.

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**(1)**

**(Total 7 marks)**