

Questions

1) Memory can be volatile or non-volatile.

a) Describe the difference between volatile and non-volatile memory. [2]

b) State one type of memory that is volatile. [1]

c) State one type of memory that is non-volatile. [1]

2) Random access memory is very fast compared with secondary storage and read-only memory (ROM). Give **four** reasons why secondary storage is needed. [4]

3) a) Explain why secondary storage could be used as virtual memory. [2]

b) Explain why more random access memory (RAM) is preferable to using virtual memory. [2]

4) A photographer wants to archive his photographs so he can access them if needed, but he does not need them immediately available.

a) Justify the use of recordable digital versatile discs (DVD-R) for **archiving** photographs. [3]

The photographer uses cloud storage for backups.

b) Give **two** reasons why cloud storage is suitable for **backups**. [2]

c) Give **one** reason why cloud storage would be unsuitable for **archiving** photographs. [1]

5) a) Match the following types of storage to the devices by drawing lines between them.

Optical

USB memory stick

Magnetic

Blu-ray

Solid state

Hard disk drive

b) Which type of storage uses electrical circuits to store data in transistors?

A SSD

B Magnetic

C Optical

[1]