

UNIT 3

1. A developer is writing a program to record the results of examinations taken by students in a school.

The program collects a large amount of data and this could be stored using either a fixed solid-state drive (SSD) or cloud storage.

The developer is planning to use cloud storage.

- (i) Describe **four** advantages to the school of using cloud storage rather than using the SSD.

1 The cloud has greater storage capacity

2 The data could be sent directly to/from the cloud from any computer/device

3 Storage capacity can be increased without adding additional physical devices

4 Many people can share the

The school would only pay for the storage used [4]
There is an automatic backup of data

- (ii) Describe **three** disadvantages to the school of using cloud storage rather than using the SSD.

1 More security issues as multiple copies of the data are stored

2 The school loses control over the storage of the data

3 Cloud storage has an ongoing cost

Users must have a reliable internet connection to store data [3]
Users must have an internet connection to access data

2. A media student is creating a movie, in school, for a project. He needs to take the movie home to edit it.

The student intends to use a CFast solid-state memory card to transport the movie files.

The student is unable to save the work on the memory card.

Give **two** error messages that may appear when attempting to save the work.

1 **Medium is full**

2 **Corrupt card**

[2]

3. Circle **two** items which are solid-state storage media.

Actuator

Blu-ray disc

Cloud

DVD

Flash memory

Hard disk

Printer

SD card

[2]

4. State **three** advantages of using solid state storage devices rather than magnetic storage devices.

1 **More robust**

2 **Faster data access times**

3 **Faster data transfer times**

[3]

5. Circle **two** solid-state storage devices.

Actuator

Cloud

CD-ROM drive

DVD drive

HDD

Pen drive

Sensor

SSD

[2]

6.