MODULE B MEMORY AND STORAGE · B5

# Choosing storage

Original practice questions · ~25 minutes · 21 marks · 0478 syllabus 3.3.3

Name _____ Date _____

**Instructions.** Answer all questions in the spaces provided. The marks for each part are shown in brackets [ ]. The total for this worksheet is **21 marks**.

## 1

Total: 5 marks

Secondary storage can be magnetic, optical or solid state (flash memory).

**(a)** Tick (✓) one box in each row to show the type of storage each device uses. **[5]**

| Device | Magnetic | Optical | Solid state |
|---|---|---|---|
| Hard disk drive (HDD) | | | |
| SD card | | | |
| Blu-ray disc | | | |
| USB flash drive | | | |
| DVD | | | |

## 2

Total: 4 marks

A parcel delivery company gives each driver a handheld device to record deliveries. The devices are often dropped and are used in vans all day.

**(a)** State the most suitable type of secondary storage for the handheld devices. **[1]**

**(b)** Explain why this type of storage is suitable for the handheld devices. Refer to how this type of storage works in your answer. **[3]**

**3** **Total: 5 marks**

A museum keeps a very large archive of high-resolution photographs on a hard disk drive in its office. The drive is never moved.

**(a)** Describe how data is stored on a hard disk drive. **[3]**

**(b)** Give **two** reasons why magnetic storage is suitable for the museum's archive. **[2]**

1

2

**4** **Total: 5 marks**

A film studio sends a copy of its new film to each of 200 reviewers on a Blu-ray disc.

**(a)** Complete the sentences about how optical storage works. **[3]**

Optical storage uses a _____ to read and write data. The data is stored on the surface of the disc as _____ and _____ .

**(b)** Give **two** reasons why optical storage is suitable for sending the film to the reviewers. **[2]**

1

2

**5** **Total: 2 marks**

A video editor says that files open faster from the solid-state drive in her computer than from her hard disk drive.

**(a)** Explain why data can be accessed faster from solid-state storage than from magnetic storage. **[2]**

**Total for this worksheet: 21 marks**