MODULE B MEMORY AND STORAGE · B3

Why computers need secondary storage

Original practice questions · ~25 minutes · 20 marks · OCR J277 spec 1.2.2

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 **20 marks**.

1

Total: 5 marks

A parcel delivery company gives each driver a handheld tablet. The tablet shows the day's route, records signatures and stores photos of delivered parcels.

(a) Define the term **secondary storage**. **[1]**

(b) Tick (✓) **one** box in each row to show whether each item is primary storage or secondary storage. **[4]**

Item	Primary storage	Secondary storage
RAM		
Solid state drive		
ROM		
USB flash drive		

2 **Total: 4 marks**

The tablet has 4 GB of RAM and 64 GB of secondary storage.

(a) State **two** items that would be stored on the tablet's secondary storage. **[2]**

1

2

(b) Explain why the tablet needs secondary storage. **[2]**

3 **Total: 4 marks**

Tick (✓) **one** box in each row to show whether each statement about secondary storage is true or false. **[4]**

Statement	True	False
Secondary storage is only used when RAM is full.		
Secondary storage is non-volatile.		
Secondary storage is only needed to make backups.		
Secondary storage usually has a larger capacity than RAM.		

4 **Total: 3 marks**

An architect saves a building plan on her desktop computer in the morning. In the afternoon she adds three new rooms to the plan, but a power cut switches the computer off before she saves again.

Explain what will happen to the plan when the computer is switched back on. Refer to RAM and secondary storage in your answer. **[3]**

5 **Total: 4 marks**

A computer has both primary storage (RAM) and secondary storage.

Explain why the computer cannot use RAM alone to store all of its programs and files. **[4]**

Total for this worksheet: 20 marks