MEMORY AND STORAGE

TOTAL MARKS:14

QUESTION 1:

3 **Five** statements are shown about Random Access Memory (RAM), an internal Solid State Drive (SSD) and a USB flash memory drive.

Tick (✓) to show which statements apply to each component. Some statements may apply to more than **one** component.

	Component		
Statement	**RAM (✓)**	**Internal SSD (✓)**	**USB flash memory drive (✓)**
it is a type of primary storage			
it is volatile			
it uses NAND and NOR technology			
it does **not** have any moving parts			
it is **not** directly connected to the central processing unit (CPU)			

[5]

ANSWER:

Question	Answer	Marks
3	**One** mark for each correct row	**5**

	Component		
Statement	**RAM (✓)**	**Internal SSD (✓)**	**USB flash memory drive (✓)**
it is a type of primary storage	✓		
it is volatile	✓		
it uses NAND and NOR technology		✓	✓
it does **not** have any moving parts	✓	✓	✓
it is **not** directly connected to the Central Processing Unit (CPU)		✓	✓

QUESTION 2:

7 Cassie stores data for her business every day. She stores the data using optical data storage.

(a) Identify **three** examples of optical data storage.

Example 1 .....

Example 2 .....

Example 3 .....

[3]

(b) **Six** statements are given about the operation of three different types of storage.

Tick (✓) to show which statements apply to each type of storage. Some statements may apply to more than **one** type of storage.

Statement	Type of storage		
	Magnetic (✓)	Optical (✓)	Solid state (✓)
this storage has no moving parts			
this storage uses a laser to read and write data			
this storage uses a read/write head			
this storage burns pits onto a reflective surface			
this storage uses NAND and NOR technology			
this storage stores data in tracks and sectors			

[6]

ANSWER:

Question	Answer	Marks
7(a)	**Three** from: • CD • DVD • Blu-ray	3
7(b)	**One** mark for each correct row	6

Statement	Type of storage		
	Magnetic (✓)	Optical (✓)	Solid state (✓)
this storage has no moving parts			✓
this storage uses a laser to read and write data		✓	
this storage uses a read/write head	✓	✓	
this storage burns pits onto a reflective surface		✓	
this storage uses NAND and NOR technology			✓
this storage stores data in tracks and sectors	✓	(✓)	