# End of Unit Quiz – Unit 1.3 Storage

1. What is secondary storage?

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1. Why is secondary storage needed on a computer?

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1. Secondary storage is often referred to by another name? What is it?

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1. Data can be either externally or internally stored in secondary storage devices.
	1. What is **one** external secondary storage device?

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* 1. What is **one** internal secondary storage device?

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1. Give three types of secondary storage and describe **one** advantage for each of their uses.

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1. A supermarket checkout uses a barcode reader to store and read items being scanned.
	1. Which type of storage uses a barcode reader to store and read items being scanned?

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* 1. Why is this type of storage the most suitable?

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* 1. What are **two** advantages for using secondary storage?

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* 1. What is **one** disadvantage for using secondary storage?

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1. Which type of secondary storage is most suitable for distributing a movie?

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1. Suggest a storage device that could be used for distributing a movie.

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1. What secondary storage device could be used for distributing music tracks?

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1. Give **two** reasons why a CD-ROM is suitable for distributing music.

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1. What is a secondary storage device that could be used for transferring text files from a school computer to a PC at home?

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1. What is **one** disadvantage of using magnetic tape to store data?

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1. How many bytes are in 3MB of data? You **must** show your working out.

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1. What are **two** factors that should be considered when deciding on how data is stored?

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1. Fill in the table below by placing **hard disk, DVD, CD** against its most appropriate capacity.

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| --- | --- |
| **Capacity** | **Storage type** |
| Up to 4.7Gb |  |
| Upto 800Mb |  |
| 200Gb to 1Tb |  |

1. What is meant when describing the ‘capacity’ of a storage device?

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1. What is meant when describing the ‘portability’ of a storage device?

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1. What is meant when describing the ‘durability’ of a storage device?

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1. What is meant when describing the ‘reliability’ of a storage device?

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**Answers**

1. What is secondary storage?

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| Where devices are not constantly connected to the computer.Devices not directly accessible by the computer’s CPU. |

1. Why is secondary storage needed on a computer?

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| Used to back up data stored in main memory/primary storage.Stores programs/data and other files that would otherwise be lost when the power is switched off/RAM is volatile/cannot store data permanently.Need for larger storage capacity. |

1. Secondary storage is often referred to by another name? What is it?

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| Auxiliary (storage). |

1. Data can be either externally or internally stored in secondary storage devices.
	1. What is **one** external secondary storage device?

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| * CDs
* Memory card
* DVD
* Blu-ray disc
* Flash drive
* USB memory stick
* External hard disk drive
* External solid state drive
 |

* 1. What is **one** internal secondary storage device?

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| * Hard disk drive (HDD)
* Solid state drive (SSD)
 |

1. Give three types of secondary storage and describe **one** advantage for each of their uses.

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| **Optical**Inexpensive/reliable/robust/relatively large capacity**Magnetic**Store large capacity/commonly used making it possible to share compatibility/can be used to store operating system and other files and programs/reliable/cost-effective**Solid state**Flexible/Inexpensive/faster access to data/Can be used for portable devices/generally smaller in size/robust/easy to use/no setup requirements |

1. A supermarket checkout uses a barcode reader to store and read items being scanned.
	1. Which type of storage uses a barcode reader to store and read items being scanned?

|  |
| --- |
| Solid state. |

* 1. Why is this type of storage the most suitable?

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| Fast access. Less delays when turning the device on.Robust. Device can be moved/handled without it getting damaged.Small/light. Fits in the barcode reader.Uses less power to battery life. |

* 1. What are **two** advantages for using secondary storage?

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| Memory is non-volatile.Data is not lost when the computer is switched off.Stores larger amount of data. |

* 1. What is **one** disadvantage for using secondary storage?

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| Data may not be current.Device could get lost.Need for a writer on the computer to write information to CD, DVD, Blu-ray discs. |

1. Which type of secondary storage is most suitable for distributing a movie?

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| Optical. |

1. Suggest a storage device that could be used for distributing a movie.

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| DVD. |

1. What secondary storage device could be used for distributing music tracks?

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| CD. |

1. Give **two** reasons why a CD-ROM is suitable for distributing music.

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| * Cheap to produce.
* Easily portable.
* Enough capacity for the music tracks.
* Can be read by other devices.
* Read only/can’t be over written.
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1. What is a secondary storage device that could be used for transferring text files from a school computer to a PC at home?

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| USB stick/pen/flash memory.CD. |

1. What is **one** disadvantage of using magnetic tape to store data?

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| * Slow to write to and read from memory.
* All data has to be read before reading the data you want.
* Data could be corrupted if close enough to a magnetic field.
* Additional equipment needed to read data from tape.
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1. How many bytes are in 3MB of data? You **must** show your working out.

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| --- |
| 3 \* 1 000 0003 000 000/3m/3 million |

1. What are **two** factors that should be considered when deciding on how data is stored?

|  |
| --- |
| * Capacity
* Speed
* Portability
* Durability
* Reliability
* Cost
 |

1. Fill in the table below by placing **hard disk, DVD, CD** against its most appropriate capacity.

|  |  |
| --- | --- |
| **Capacity** | **Storage type** |
| Up to 4.7Gb | DVD |
| Upto 800Mb | CD |
| 200Gb to 1Tb | Hard disk |

1. What is meant when describing the ‘capacity’ of a storage device?

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| --- |
| Size of data/file. |

1. What is meant when describing the ‘portability’ of a storage device?

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| Refers to whether the data needs to be moved from one device to another. |

1. What is meant when describing the ‘durability’ of a storage device?

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| --- |
| Length of time expected for data to last. |

1. What is meant when describing the ‘reliability’ of a storage device?

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| --- |
| Refers to whether the data will be saved as expected.Data is not effected when saved.No changes to file formatting.  |

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