**Activity 5 – Memory Management**

Task A

In the box below illustrate how the operating system manages memory. Some components have been provided for you on the left.

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| Before: | Components:  Virtual Memory  Main Memory  Data |

Task B

Answer the following questions on memory management.

1. What is memory management?

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1. Why is memory management used?

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1. What does it mean to swap data in and out of main memory?

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1. List some benefits of swapping data.

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1. Data can be retrieved from secondary storage to main memory by using paging or segmentation.

What is the difference between paging and segmentation?

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Task C

1. What is meant by the term ‘spooling’

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1. One common spooling process is the ability to manage tasks such as printing documents.

Describe how ‘print spooling’ works.

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1. Load up an image search using the keywords ‘print spooling’ and provide a screenshot to show what it looks like on a computer system.

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1. Identify the issues associated with storing print jobs in a ‘spool file’.

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1. Explain why a network is better equipped to deal with spooling.

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Task D

Describe what is meant by memory management.

Before you write your description, look at the answer builder tool underneath the help you.

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| Description: | Example: |
| Answer builder:   |  |  |  | | --- | --- | --- | | ⚫ | ⚫⚫ | ⚫⚫⚫ | | Why does data get moved to virtual memory? | Where can virtual memory located? | What happens to do the data stored in virtual memory when space comes available in the main memory? | | |