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**CA2020 Bootcamp**

**Assignment 1**

Question 1- What is Cache Memory?

Answer- A Cache memory is a third chip between the processor and the memory. It temporarily holds components of memory from the main memory which is currently in use.

Question 2- What is Disk Management?

Answer- Disk management is used to manage storage disks associated with the computer. These disks can be either internal or external. There are many uses of disk management ranging from creating and deleting drives, partitioning drives, formatting drives, assigning drive letters, etc.

Question 3- Cache vs RAM

Answer-

|  |  |
| --- | --- |
| Cache | RAM |
| Cache is a memory that works between RAM and CPU | RAM allows information to be stored and retrieved on the computer |
| Accessing Cache memory is much faster than main memory | RAM stores data that is often and frequently used by the computer |
| Cache is much faster and thus pretty expensive | RAM is cheaper than Cache memory. |
| Is actually known as Static Ram (SRAm) | Is actually known as Dynamic RAM (DRAM) |
| In hierarchy, Cache memory is closer to the CPU | In hierarchy  DRAM is further from the CPU. |
| Capacity is lower | Capacity is higher |

Question 4- HDD vs SSD

Answer-

|  |  |
| --- | --- |
| HDD | SSD |
| Stands for Hard Disk Drive | Stands for Solid State Drive |
| Has more power | Has less power |
| Is Cheaper | Is Expensive |
| It is less durable | It is more durable |
| Consumes more energy | Consumes less energy |
| Has a higher life span | Has a comparatively lower life span |