9 Lecture - CS301

Important Subjective

1. What is memory organization?

Answer: Memory organization refers to the arrangement of memory blocks and allocation of data in the computer's memory.

2. What is the memory hierarchy?

Answer: The memory hierarchy is a hierarchy of different types of memory with varying access times and storage capacities.

3. What is the purpose of memory hierarchy?

Answer: The purpose of memory hierarchy is to provide faster access to frequently used data and reduce the average access time.

4. What is cache memory?

Answer: Cache memory is a small, fast memory that is used to temporarily store frequently accessed data and instructions.

5. What is virtual memory?

Answer: Virtual memory is a technique that enables a computer to use more memory than it physically has by temporarily transferring data from the main memory to the hard disk.

6. What is a memory module?

Answer: A memory module is a small circuit board that contains multiple memory chips and is used to expand the memory capacity of a computer.

7. What is a memory controller?

Answer: A memory controller is a device that manages the flow of data between the computer's CPU and memory.

8. What is the role of the memory controller?

Answer: The memory controller is responsible for controlling the access to memory, optimizing data transfer, and managing the memory hierarchy.

9. What is DRAM?

Answer: DRAM (Dynamic Random Access Memory) is a type of memory that is commonly used in computers for main memory.

10. What is SRAM?

Answer: SRAM (Static Random Access Memory) is a type of memory that is faster and more expensive than DRAM and is commonly used in cache memory.