

# 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.