

COMPUTER SYSTEM ARCHITECTURE

Q1. Write answers for any three questions from below. (5 marks each – Word limit Minimum 500)

A. What is Computer System Architecture? Explain with example?

Ans:- Computer system architecture refers to the design and organization of a computer's fundamental components and their interactions. It defines how hardware components work together to execute instructions and perform tasks, ensuring the effective and efficient operation of a computer system. This encompasses the structure of the CPU, memory hierarchy, input/output systems, and the way these elements interface with one another. Understanding computer architecture is crucial for optimizing performance, designing efficient systems, and troubleshooting hardware and software issues.

Components of Computer System Architecture

1. Central Processing Unit (CPU):

- *Function: The CPU is the brain of the computer, responsible for executing instructions from programs. It performs arithmetic and logical operations, controls data flow, and manages communication between different components.*
- *Structure: The CPU is typically divided into the Arithmetic Logic Unit (ALU), which performs calculations and logical operations, and the Control Unit (CU), which directs the operation of the CPU by fetching, decoding, and executing instructions.*

Example: Modern CPUs, such as Intel's Core i7, consist of multiple cores, allowing them to execute several instructions simultaneously, thereby enhancing performance through parallel processing.

2. Memory Hierarchy:

- *Function: Memory hierarchy refers to the organization of memory into levels, each with varying speeds and sizes. This hierarchy optimizes data storage and retrieval, balancing speed and cost.*
- *Levels:*

Computer System Architecture

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Computer System Architecture:

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