- What is the format of Micro Instruction in Computer Architecture explain ?
- Write a short note on LRU algorithm ?
- Write a short note on Array processors ?
- Write a short note on design of arithmetic unit ?
- What is the layout of pipelined instruction in Computer Architecture ?
- Explain the following interfaces in Detail:PCI Bus, SCSI Bus, USB Bus
- What is Memory Organization ? Discuss different types of Memory Organization in Computer System.
- Briefly explain the concept of pipelining in detail ?
- What is Multiprocessor ? Explain inter process communication in detail ?
- Write short note on improving cache performance methods in detail ?
- Briefly explain the concept of pipelining in detail ?
- What is Multiprocessor ? Explain inter process communication in detail ?
- Explain different modes of data transfer between the central computer and I/O device ?
- Explain how addition and subtraction are performed in fixed point number ?
- Explain the design of arithmetic and logic unit by taking on example ?
- Define the instruction format ? Explain I/O System in detail ?
- Discuss the following in detail: RISC architecture, Vector processing ?
- Explain how a stack organized computer executes instructions? What is Stack?
- Explain hardwired microprogrammed control unit ? What is address sequencer circuit ?
- If cache access time is lOOns, main memory access time is 1000 ns and the hit ratio is 0.9. Find the average access time and also define hit ratio.
- Explain signed magnitude, signed l’s complement and signed 2’s complement representation of numbers. Find the range of numbers in all three representations for 8 bit register.
- Differentiate between Serial and parallel data transfer ?

- What is Paging? Explain how paging can be implemented in CPU to access virtual memory.
- What is Associative memory? Explain the concept of address space and memory space in Virtual memory.
- Draw and explain the memory hierarchy in a digital computer. What are advantages of cache memory over main memory?
- Explain general register organization.
- Draw the functional and structural views of a computer system and explain in detail ?
- Write short notes on
- Explain SIMD array processor along with its architectural diagram ?

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