Unit-4					
1.	Explain in detail two ways of designing control unit				
2.	What are the flag bits? Give the meaning of each and use of them in				
۷.	programming.				
3.	Write a note on: Adress Sequencing				
4.	Explain Instruction format for microinstruction in detail				
Unit -5	Explain instruction formation in death				
1.	Explain various types of interrupts.				
2.	Compare RISC with CISC architecture				
3.	Explain four types of instruction formats.				
4.	Explain various addressing modes in detail				
5.	Write a note on general purpose register organization				
6.	What are various data manipulation and data transfer instructions?				
7.	Describe the below addressing modes with examples a. Implied Mode b.				
	Immediate Mode c. Auto increment and Auto decrement Mode d. Direct and				
	Indirect Address Modes				
8.	Explain the three categories of computer instructions such as data transfer				
	instructions, data manipulation instructions and program control				
	instructions.				
9.	Write a program to evaluate the arithmetic statement: $X=(A+B)*(C+D)$ i.				
	Using a general register computer with three address instruction. ii. Using a				
	general register computer with two address instruction iii. Using an				
** • •	accumulator type computer with Zero address instruction				
Unit-6					
1.	Explain four segment instruction pipelines.				
2.	Write a note on Flynn's taxonomy				
3. 4.	What is arithmetic pipeline?				
5.	Explain Instruction pipeline in detail				
6.	Explain three segment instruction pipelines in detail Write a note on: Vector processing				
Unit-7	write a note on. Vector processing				
1.	Explain booth's multiplication algorithm with a flowchart.				
2.	What is division process of two signed bit numbers?				
3.	Draw a neat diagram for hardware implementation of booth's multiplication				
	algorithm and explain.				
4.	Explain Floating Point Arithmetic with an example				
Unit-8					
1.	With a neat diagram, explain the working principle of DMA.				
2.	Write a note on input-output interface.				
3.	What is asynchronous data transfer?				
4.	List modes of data transfer in I/O device. Explain any one mode in detail.				
5.	Write a note on: serial communication				
Unit-9					
1.	Explain memory hierarchy in computer system with a diagram.				
2.	Write a note on: Auxiliary memory				
3.	Define Random Access Memory and types of RAMs present?				
4.	Discuss virtual memory organization				
5.	What is static RAM? Differentiate SRAM and DRAM				
6.	Explain how read and write operations are carried out in cache memory				