Doc	Topic
2	Difference between cores vs threads
	Define: hyper threading, multithreading, single-core cpu, multi-core cpu
3	Intel 8259 pic: features, block diagram, advantage-disadvantage
4	Intel 8259 Pic : Functional Description, Interrupt Sequence, Cascading The 8259a
5	Microprocessor: Definition, function, block diagram, working procedure,
	Microcomputer, organization of microcomputer based system, difference between microprocessor and microcomputer,
	8086: Feature, addressing mode, instruction set
6	-Draw and explain the block diagram of the programmable peripheral interface (8255A).
	-Explain 8255A I/O Operating Modes
	-Explain BSR Mode of the programmable peripheral interface (8255A) with necessary diagrams.
	-Explain 8255A Control Word and Control Register with necessary diagram.
	-What is the need of the programmable interrupt controller (8259A)?
	-Draw and explain the block diagram of 8259A
	-features of 8259
	-8259 Internal Block Diagram
	-Explain I/O interfacing Methods
	-Comparison of Memory-Mapped I/O and Peripheral Mapped I/O
7	-Draw and explain 8086 Logical Block diagram,
	-Explain 8086 Registers
	-Draw the format of a Flag register of an 8086 microprocessor
	-Explain Segmentation in 8086
	-How to calculate physical address from segment address
	-How is a 20-bit physical address obtained if data bus is of 16-bit
	-Explain 8086 pin diagram
	-Describe the architecture of the 80286 with a neat block diagram.
	-Explain Register Organization of 80286
	-80286 Flag Register, Machine Status Word (MSW) Register
	-Real Mode, Protected Virtual Address Mode (PVAM)
	-Differentiate between the real mode and protected mode of an 80286 microprocessor.
	-Page Translation Mechanism in 80386
	-Features of 80386
	-Explain the architecture of the 80386 with a neat block diagram.
	-Register organization of 80386
	-Register organization of 80386
	-Explain features of 80486, -Features of Pentium Processor
8	-DMA controller 8257/8237: feature, operation, Modes of DMAC, advantage-disadvantage
	-Define paging, How paging works
9	- 8086 Interrupts, types and difference
10	All topics
12	-feature and functional block diagram of 8051 microcontroller
	-execution of an interrupt
12	-memory organization:
13	PLC: features, -plc programming languages, define ladder diagram (ld) with of ladder symbol/ element, -logical function:
	and, or