

UNIT-II				
S.No	Questions	BT	CO	PO
Part – A (Short Answer Questions)				
S.No	Questions	BT	CO	PO
1	What is a combinational circuit ? Explain its characteristics.	L1	CO2	PO1
2	Explain the analysis procedure for a combinational circuit.	L1	CO2	PO1
3	Explain the design procedure for a combinational circuit.	L1	CO2	PO1
4	Explain a binary adder-subtractor .	L1	CO2	PO2
5	Explain the working of a magnitude comparator .	L1	CO2	PO1
6	Explain decoders and encoders with suitable examples.	L1	CO2	PO1
7	Explain the working of a multiplexer .	L1	CO2	PO2
8	What are sequential circuits ? How are they different from combinational circuits?	L1	CO2	PO1
9	Explain latches and flip-flops .	L1	CO2	PO1
10	Explain shift registers and ripple counters .	L1	CO2	PO1
Part – B (Long Answer Questions)				
11	Explain the analysis and design procedures of combinational circuits with suitable examples.	L2	CO2	PO2
12	Explain binary adder-subtractor and decimal adder with suitable logic diagrams.	L2	CO2	PO3
13	Explain the design and operation of a binary multiplier .	L2	CO2	PO2
14	Explain magnitude comparator, decoder and encoder with suitable diagrams.	L2	CO2	PO3
15	Explain the operation of a multiplexer and its applications.	L3	CO2	PO3
16	Explain HDL for combinational circuits with suitable examples.	L2	CO2	PO2
17	Explain sequential circuits, latches and flip-flops in detail.	L2	CO2	PO2
18	Explain the analysis of clocked sequential circuits , including state reduction and assignment.	L3	CO2	PO3
19	Explain the design procedure for sequential circuits with a suitable example.	L2	CO2	PO2
20	Explain registers, shift registers, ripple counters and synchronous counters in detail.	L3	CO2	PO3



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NARSIMHA REDDY