

UNIT-III:

1.	Explain the design procedure for combinational circuits?	Understand	3
2.	Explain the design procedure for combinational circuits?	Understand	3
3.	Design a combinational logic circuit with 3 input variables that will produce logic 1 output when more than one input variables are logic 1?	Understand	3
4.	Compose and explain the block diagram of 4-bit decimal adder?	Understand	3
5.	Define magnitude comparator?	Knowledge	3
6.	Explain the design procedure for combinational circuits?	Understand	3
7.	Design and implement a 8421 Gray code converter?	Understand	3
8.	Define magnitude comparator?	Knowledge	3
9.	Define magnitude comparator?	Knowledge	3
10.	Design a 4-bit priority encoder?	Understand	3
11.	Differentiate multiplexer and demultiplexer?	Apply	3
12.	Explain the working of 8:1 multiplexer?	Understand	3
Long Answer Questions			
1.	Construct and explain the working of decimal adder?	Apply	3
2.	Design 1-bit comparator using logic gates?	Understand	3
3.	Design the operation performed by the following logic circuit with an example. Encoder?	Apply	3
4.	Construct 16:1 multiplexer using 8:1 and 2:1 multiplexer?	Apply	3
5.	Design and implement a full adder circuit using a 3:8 decoder?	Understand	3

