



## OR

6	a.	Simplify and realize the expression using NAND and NOR $F = AB + AC + BD + CD.$	7	L3	CO3
	b.	Implement full adder circuit with truth table and deduce expression for sum and carry.	7	L2	CO3
	c.	Implement EX-OR and EX-NOR using NAND.	6	L2	CO3

## Module – 4

7	a.	Define general computing system. Describe its classification in contrast to embedded system.	7	L2	CO4
	b.	Compare microprocessor and microcontroller with silent features.	7	L2	CO4
	c.	Explain the following : i) Transducers ii) Actuators.	6	L2	CO4

## OR

8	a.	Explain various elements of embedded systems and state its applications.	7	L2	CO4
	b.	Distinguish RISC and CISC.	6	L2	CO4
	c.	Explain : i) 7 segment LED display ii) Sensor.	7	L2	CO4

## Module – 5

9	a.	Explain the concept of AM wave and interpret MI and transmission efficiency.	7	L2	CO5
	b.	Discuss the various modes of radio wave propagation.	7	L2	CO5
	c.	Describe ASK used in communication system.	6	L2	CO5

## OR

10	a.	Discuss frequency modulation in communication system and describe MI and frequency deviation.	7	L2	CO5
	b.	Describe the various block of communication system.	6	L2	CO5
	c.	Explain PSK modulation technique in communication system.	7	L2	CO5

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