

UNIT-I:

S.NO	SHORT ANSWER QUESTIONS	Blooms Taxonomy Level	CO
1.	Write short notes on binary number systems?	Understand	1
2.	Discuss 1's and 2's complement methods of subtraction?	Understand	1
3.	Discuss octal number system?	Understand	1
4.	Write a short note on five-bit BCD codes?	Understand	1
5.	Explain the specialty of unit –distance code? State where they are used?	Understand	1
6.	Write a short note on error correcting codes?	Understand	1
7.	State De-Morgan theorem?	Knowledge	1
8.	Convert $(4085)_9$ into base-5?	Understand	1
9.	Write the first 20 decimal digits in base 3?	Understand	1
10.	Write the steps involved in unsigned binary subtraction using complements with examples?	Understand	1
11.	Explain the addition of two signed binary number along with examples?	Understand	1
12.	Differentiate between binary code and BCD code?	Understand	1
13.	Write the Axiomatic Definitions of Boolean Algebra?	Understand	1
14.	Design the twographic symbols for NAND gate?	Understand	1
15.	Design the twographic symbols for NOR gate?	Understand	1
Long Answer Question			
1.	(a) Solve the subtraction with the following unsigned binary numbers by ta of the i.100 – 110000 ii. 11010 - 1101. (b) Construct a table for 4 -3 -2 -1 weighted code and write 9154 using this code. Write short notes on binary number systems.	Apply	1
2.	Solve $(3250 - 72532)_{10}$ using 10's complement?	Apply	1
3.	Convert 10101101.0111 to octal equivalent and hexadecimal equivalent?	Understand	1
4.	Solve addition and subtraction of $(456)_8$ and $(341)_8$?	Apply	1
5.	Explain what do you mean by error detecting and correcting codes?	Understand	1

6.	State and prove any 4 Boolean theorems with examples?	Understand	1
----	--	------------	---

