

ASSIGNMENT (UNIT 1) COA 21CSS201T

Deadline 4th Aug 2023.

- 1. How is the number 29 represented in BCD.**
- 2. Convert decimal number 137.25 to binary.**
- 3. Convert decimal number 146.44 to octal Number System.**
- 4. Convert decimal number 1366 to octal Number System.**
- 5. Convert Binary number 101101.01 to octal Number System.**
- 6. Convert Binary number 1010110.1101 to Hexadecimal Number System.**
- 7. Explain what is Grey codes ,ASCII codes and Excess 3 codes with example.**
- 8. Explain Various Logic gates along with truth tables.**
- 9. ADD -9 and +3 using sign magnitude .**
- 10. ADD -10 and -2 using 1's complement.**
- 11. ADD -11 and -2 using 2's complement .**
- 12. Multiply binary number 1001 with 101**
- 13. Divide binary number 11111111 with 111**
- 14. Write Rules for BCD SUBTRACTION USING 9's and 10's complement .**
- 15. Add 6 and 9 Using BCD arithmetic.**
- 16. Subtract BCD 218 from 541 using 9's as well as 10's complement method.**
- 17. What is weighted and non weighted code. Also explain what is self complementary codes with examples.**
- 18. Perform 17- 8, 145-132 using 1's complement and 2's complement method.**
Assume 8 bit register is used to store numbers.
- 19. Realize NOT ,AND ,OR gate using NAND gate only.**
- 20. Realize NOT ,AND ,OR gate using NOR gate only.**