# TELANGANA UNIVERSITY <br> S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029) <br> V SEMESTER INTERNAL ASSESSMENT I EXAMINATIONS DIGITAL ELECTRONICS \& MICROPROCESSOR QUESTION BANK 

- Fill in the blanks:-

1. A binary digit is called a bit
2. Decimal 21 is equal to 10101 in binary
3. According to binary addition, $1+1=\underline{10}$
4. $(1100110)_{2}=(102)_{10}$
5. The AND gate is also called a co-incidence circuit
6. NAND and NOR logics are also known as Universal Gates
7. In a NOT gate, when input is high, the output in Law
8. The 2's complement of a binary 10100 is $\underline{01100}$
9. The digital system operates on binary system
10. Binary addition of $(1+1+1+1)$ gives $\underline{100}$
11. Octal 45 is equivalent in binary 100101
12. When an electrical I/P signal $A=11011$ is applied to NOT gate its output is $\underline{00100}$
13. An Half adder is constructed from XOR and AND gates
14. An EXOR gate producer an output as ' 1 ', when inputs are different
15. Shift resister is classified into $\underline{4}$ types
16. The full form of SIPO is serial in parallel int
17. The universal shift resister is capable of shift data left, right and parallel load capabilities
18. To active entire clip function of an enable I/P to multiplexer clip.
19. A digital multiplexer is combinational circuit that selects one to many
20. In a multiplexer, the selection of a particular input line is controlled by select lines
21. How many NOT gates required to 4 to 1 multiplexer $\underline{02}$
22. A Resister is defined as group of Flip-Flops to store binary information
23. A Register is a combination of Flip-Flaps
24. How many types of Flip-Flops 4
25. Minimum No. of MOS required to make dynamic RAM is $\underline{4}$
26. AND, OR, NOT gates are called primary gates
27. In Bipolar family the smallest propagation delay is ECL
28. Mod-6 and Mod-12 counters are most commonly used in Digital Clocks
29. The output of AND gate is low, when any input is low
30. A simple Flip-Flop is a 1-bit memory
31. A ripple counter speed is limited by propagation delay of each Flip-Flop
32. MUX circuit used to parallel to serial converter
33. CMOS logic family uses low power
34. In TTL family high output voltage corresponding to 2.4 to 5 V
35. TTL stands Transistor - Transistor - Logic
36. CMOS logic family has highest famout
37. The odd number of is in a binary word odd polity
38. The output broken expression for Ex-OR Gate_ $y=\bar{A} B+A \bar{B}$
39. The Full adder consist of two HA's \& OR gate
40. The ex-NOR gate output is unity when Input s are same
II. Short Questions.
41. State De morghon's theorems ?
42. Explain types of Logic families ?
43. Draw truth table of Ex-NOR gates ?
44. Define positive and negative logic?
45. Construct OR gate using NAND gates only ?
46. Construct Ex-OR gates using NOR gates only ?
47. Explain Race around conditions ?
48. Draw truth table of JK Flip-Flap ?
49. Draw truth table of AND gate ?
50. What is CMOS logic ?
