25122

Reg. No.

I Semester B.Voc. Degree Examination, August - 2021 INFORMATION TECHNOLOGY

Digital Electronics

(CBCS Scheme)

Paper: BOIT1 - A022 Time: 3 Hours **Maximum Marks: 70** Instructions to Candidates: Answer All the Parts. PART-A Answer any Ten questions. Each question carries 2 marks. I. $(10 \times 2 = 20)$ 1. Name the four different types of number system. **(2)** Mention any two combinational logic circuits. 2. **(2)** 3. Write an expression and logic symbol of XOR gate. **(2)** Draw the block diagram of (Half Adder and write the sum and carry expression.(2) 4. LIBRARY 5. Define sequential circuits. **(2)** 6. What is flip - flop? **(2)** 7. What is Register? **(2)** Define Master - slave flip - flop. 8. **(2)** 9. What is counter? **(2)** 10. Differentiate SRAM and DRAM. **(2)** 11. Give any two Boolean Laws. **(2)** 12. Convert Binary to gray code 1101. **(2)** PART - B II. Answer any Five questions. Each question carries 10 marks. $(5 \times 10 = 50)$ Convert the following number 13. a) $(1011)_2 = (?)_8$ a. **(2)** $(BAF2)_{16} = ()_{2}$ b. **(3)** b) Explain different types of digital codes. **(5)**

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