

REGISTRATION NUMBER

SRINIX COLLEGE OF ENGINEERING

1ST INTERNAL EXAMINATION-2021-22

Subje	et- DLD	Semester-3rd	Branch-CSE)
Full Mark-60			Time- 2.00Hrs
ANSWER ALL QUESTIONS (PART-A)			[2X10=20]
1. 2. 3. 4. 5. 6. 7. 8. 9.	Convert $(25.81)_{10} = (?)_2$. Find the radix of $(\frac{42}{5})_r = (1)$ Find the 2's complement of Find (1001101) _G to its bit Write about XOR and NOF Write the absorption law an Given $y = \sum m(0,1,3,5,7)$. Differentiate between complexity of the synchronization of the synchr	 10)_r. f (i) 1101010 (ii) 0001010 nary format. ζ gate. nd prove it? Write its SOP forms? binational and sequential circuit 	t.
ANSWER ALL QUESTIONS (PART-B)			[5X4=20]
1. 2. 3. 4.	Given $y = A\overline{B} + C$.Impleme A 7 bit Hamming code is (1 Given $y = \sum m(0,1,3,6,10,1)$ Write the Demorgan's theor	ent using (i) Basic gates (ii) NA 100110) ₂ Find the error bit and 11,14) Implement using (i) 4x1 rem and prove it ?	AND gates d correct it. MUX (ii) 8x1 MUX
<u>ANSW</u>	VER ANY TWO QUESTION (PART-C)	[10x2=20]

- Explain about ripple counter.
 Convert SR to JK flip-flop.
- 3. Explain SISO?