Q.P. Code:16EC5703											R16	R16			
Reg.]			
	M.Te	SIDDH# ch I Yea	ART ar I	H INS	STITU	ITE C Regu)F EN (AU Ilar & DIGIT	GINE TONC Supp AL IC	ERIN MOU leme DES	G & T IS) ntary IGN	FECH	NOL(OGY:: PUTTI	JR ry 2018	
Time 3	hau	~						(VL	SI)						
Time. J	noui	5			(Ans	wer a	ll Five	e Units UNIT	5 X [/] -I	12 =6	0 Ma	rks)	Max. Marks	5. OU	
1	a.	a. What is clock skew problem and how is it overcome in domino CMOS circuits?													
	b.	 Compare the power dissipation of static CMOS and dynamic CMOS OR 													
2	a. b.	How does the domino logic solves the problem in dynamic logic? Design a static CMOS circuit for XNOR gate.													
3	a. b.	Explain about different strategies for building low power CMOS gates With a neat sketch explain the working of a 4 transistors SRAM												6M 6M	
4	a.	Give short notes on logical effort?.													
	b. What are the design consideration of a 4 bit SRAM with the help of CMOS logic diagram.												o of CMOS	7M	
5	a.	How do we calculate power for BiCMOS and on what parameters the power equation depends on?													
	b.	Design NAND gate in BiCMOS logic 4													
6	a.	Elaborate about bipolar gate design in detail with neat sketches.													
	b.	Explain the concept of BiCMOS inverter													
7	a.	What are the general observations on the design rules?													
	b.	Give short notes on NMOS based design rules. 6 OR													
8	a.	Write about: (i) Sheet resistance.													
	D.	b. (ii) Lambda based design rules.													
9	a.	Compare different types of CMOS subsystem shifters													
	b.	List the design approach of 4 bit shifter 5M												5M	
10	а	UR How to design the ALU sub-system? Give the process													
	b.	Explain	n in	detail	about	subsy	/stem (design * ENC	proce	SS.				7M	