	stration No :								
Total Nu	mber of Pages : 0	210		210			210	210 F	B.TECH PET3I104
210 Answe l	²¹⁰ r Question No.1 (F	210	DIGITAI BRAN Max Tin Q.C nich is (L ELECT CH : EC Marks ne : 3 H ODE : H compuls om Part	TRONI E, ET : 100 ours B825 sory, a -III.	CS C iny E	210 IGHT	210 from Part-II and an	210 y TWO
Q1 a) b) c) d) e) f)	 a) What do you mean by "maxterm" and "true maxterm"? 210 b) Draw the logic diagram of 4-bit parallel subtractor. c) How an odd parity bit is generated for 4 data bits? d) Convert (126)₁₀ to octal and binary number. e) Whether PLA same as PAL? 								(2 x 10) 210
g) (h) i) j)	What is meant by "lock-out" problem in counter? Define setup time of timing diagram. 210 210 210 Differentiate between SRAM and DRAM. Distinguish between a combinational logic circuit and sequential logic circuit.							210	
Q2		hort Ans	wer Ty	Part- I pe Que:		- (Aı	nswe	r Any Eight out of	(6 x 8)
a)									210
c) 210 d) e) f) g) 210 h)	With the neat circle expression. With the neat circle to BCD encoder. Explain the operacircuit and wavefor Explain the working Illustrate the operatiming diagram.	uit diagra tion of sw rms. ng of +ve ration of	m explant m explant witch de edge tr 4-bit bi	ain the on 210 ain the keep to bouncer iggered nary ripp	eypad built u D-flip fole cou	ook a interl ising lop w inter	head 210 face t SR la rith th using	adder with relevant 210 using 74147, 10 line atch with the help of e functional table. In line glogic diagram and generate the count	210

