

	(c) Explain Ports. (any three)	03
Q-5		(14)
	(a) Explain AND,OR,NOT,NAND,NOR,XOR,XNOR gate with its logical symbol, truth table, equation.	07
	(b) Explain Duplex system.	03
	(c) Explain Assembler, Interpreter and Compiler.	04
Q-6		(14)
	(a) Write a short note on Mouse and Keyboard.	07
	(b) Explain Scanner with its types.	07
Q-7		(14)
	(a) Do as directed :	07
	1. $(144)_{10} = (?)_2$	
	2. $(10110111)_2 = (?)_8$	
	3. $(1010110) + (1101)$	
	4. $(11010) - (001)$	
	5. $(56)_{10} = (?)_8$	
	6. $(64)_8 = (?)_{16}$	
	7. Find 2's complement of (10010111)	
	(b) Explain: Stack Operation with example.[Perform $5*4+3*2$]	07
Q-8		(14)
	(a) Explain Printer with its types.	07
	(b) Write a note on: Magnetic Tape.	03
	(c) Explain: Half Adder.	04

