Code: 15MC34T

Register						
Number		120				

III Semester Diploma Examination, Nov./Dec.-2018

MICROCONTROLLER & APPLICATIONS

Time: 3 Hours] [Max. Marks: 100

Answer any six questions. Dished By: 5 Explain briefly the function of flags & status word. 1. 5 Explain addressing modes with examples. 2. Explain instruction format of 8051 microcontroller. 3. WAP of compliment higher nibble to 2AH. 4. 5 Explain the bit structure of IP register. 5. 5 Write the block diagram of 8255 PPI. Explain with circuit diagram interfacing relay with 8051 microcontroller. 5 7. Explain with circuit diagram interfacing Opto coupler with 8051 Microcontroller. 5 8. 5 Explain microcontroller based force measuring system. 9.

'	5MC34	2 of 2	103
		PART – B	
	Ans	swer any seven full questions.	$10\times7=70$
1	0. Exp	olain 8051 microcontroller with its functional block diagram.	10
1	1. (a)	Distinguish between CISC & RISC Architecture.	5
	(b)	Explain the features of 8051 microcontroller.	5
12	2. Exp	lain the classification of Instruction set with examples.	10
13	3. (a)	State & explain ADDC A, # 30 H	5 + 5 = 10
	(b)	Explain algorithm with example.	
14		te a program to separate positive and negative numbers in a series of bers.	10
15	5. (a)	LADIGITI THE DIT SITURDITE OF LAW III regreter	ORO
	(b)	Explain TCON register.	CONSOLETIO
16	E T Write data	e a program to receive data serially at a baud rate of 4800 and send to R1.	the received
			10
17	. Expl	ain interfacing 8051 microcontroller with ADC.	10
18	. Expl	ain microcontroller based Robot arm position measuring system.	10
19	. Expl	ain microcontroller based angular speed measuring system.	10