Vivekananda College of Engineering & Technology,Puttur [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®] Affiliated to VTU, Belagavi & Approved by AICTE New Delhi			
CRM08	Rev 1.10	ECE	24/06/2020

ONLINE CONTINOUS INTERNAL EVALUATION – 2

Dept:EC	Sem / Div:4A&B	Sub:Microcontroller	S Code:18EC46
Date:26/6/2021	Time: 3:00-4:30PM	Max Marks: 50	Elective: N

QN		Questions	Marks	RBT	CO's
		PART A			
1	a	Explain the different types of jump instructions in 8051.Give examples	8	L2	CO2
	b	Explain the following instructions with examples a)ORL A,DIRECT b)CPL A c)DEC DIRECT d)ANL C,/BIT e)XCH A,@R1 f)MOVX @DPTR,A	6	L2	CO2
	c	Write assembly level program to perform the following operation. Write the output after execution i)ADD two numbers A=20h and B=30h.Store the output in location 40H ii)Multiply two numbers stored in the location 60H and 61H.Store the output in location 63h	6	L3	CO2
		OR			
2	a	Explain the different types of rotate instuctions ad SWAP instruction with the bit patterns .Give two examples each	8	L2	CO2
	b	Explain the following instructions with examples a)ANL A, DIRECT b)DAA c)XCHD A,@R0 d)SUBB A, R1 e) MOV R1,A f) RLC A	6	L2	CO2
	c	Write assembly level program to perform the following operation. Show the output after execution i)Subtract B=30h from A=60h. Store the output in location 20H ii)Divide the number stored in the location 30H by31H.Store the quotient in location 32h and remainder in 33h	6	L3	CO2
		PART B			
3	a	What is a subroutine. Explain the advantages of subroutine and its usage	8	L2	CO3
	b	With a neat diagram explain the structure of stack. How to access the stack	6	L2	CO3
	c	Write assembly level program to check the position of the switch connected to P0.0 .If the switch is ON turn ON LED connected to P0.1	6	L3	CO3
		OR			
4	a	What are the sequence of operations that takes place when call and return instructions are executed	8	L2	CO3
	b	Write assembly level program to exchange the contents of register R1 and R2 using stack	6	L3	CO3

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	c	Write assembly level program to read a byte from P0 and send it to P1 and P2	6	L3	CO3