V.P & R.P.T.P. SCIENCE, V.V.NAGAR Internal Exam B.Sc. (VIth SEM.) ELECTRONICS

	08/03/2019 10:00 am to 12:00 pm		SUB: US06CELE03 MARKS-50	
Q-1	Choose correct answer		[08]	
1.	Maximum time delay using single	register program is	A	
	(A) 1 sec.	(C) 1.8 ms		
	(B) 1.8 sec.	(D) 1.9 ms		
2.	To design counter and time delay	and techniques are used.		
		(C) Nesting, Subroutine		
	(B) Debugging, Indexing	(D) none of above		
3.		ecution of ANI FO H, the contain of	P. Science	
	Accumulator is	((2))	Co	
	(A) 30 H	(C) 03 H		
	(B) 39 H	(D) 93 H	BRARY	
4.	The decimal equivalent of FD _H is _		/	
	(A) 253	(C) 235	L' Nacat	
	(B) 532	(D) none of above	V. IVas	
5.	RET is instruction.			
	(A) one byte	(C) three byte		
	(B) two byte	(D) none of above		
6.	To set the carry flag in	struction is used.		
	(A) STC	(C) CMC		
	(B) PCHL	(D) none of above		
7.	Rotate accumulator right instructi	on is		
	(A) RAR	(C) RLC		
	(B) RAL	(D) none of above		
8.	A down counter counts in	order.		
	(A) ascending	(C) both A and B		
	(B) descending	(D) none of above		
Q-2	Short answer type question. (any	five)	[10]	
1.	Define counter and time delay.			
2.	Define T-state in 8085 μp.			
3.	What do you mean by debugging in 8085 μp?			
4.	List arithmetic instructions related to memory in 8085 system.			
5.	Which instructions are used to sto	ored and retrieves data from STACK?		
6.	Draw the flow chart of counter an	d time delay using single register.		
7.	Briefly explain ASCII code.			
8.	Write a program to load 4C H in re	egister D, multiply 4C H by 2 using rotate		
	instruction, and specify the result.			
Q.3	Fifteen byte of data is stored in memory location starting at XX70. Write a			
	programme to add all the data bytes and save the carry generated in a register.			
	Display the entire sum at any two			
		OR	F = - *	
Q.3	Discuss different Rotate and comp	pare instructions with illustration.	[80]	

Q.4	Write a program to count continuously in hexadecimal from FD H to 00 H in a system with 2 MHz clock frequency. Install 1.5 msec. time delay between each count and display the count at output port. (Take no. Of T-state =15)	[08]
117-	OR	[00]
Q.4	Discuss different STACK and Subroutine instructions with illustration.	[80]
Q.5	A set of 3packed BCD number stored in memory. The seven segment code for digit 0 to 9 are also stored in memory location. Write a main program and two subroutine to unpack BCD number and select an appropriate seven segment code for each digit and stored them in output buffer memory. OR	
Q.5	Write a programme to convert two digit BCD number stored in memory location	[08]
	to its equivalent binary number.	
Q.6	A set of fifteen pack BCD number is stored in memory location stating at XX20 H. Write a program with subroutine to add all these numbers in BCD if carry is generated save it in register B after adjusting it for BCD.	[80]
	OR	
0.6	Discuss different advanced instructions of 8085 system with illustrations.	[08]

