[A-78]

DATE: 1st April 2016



No. Of Printed Pages: 2

SARDAR PATEL UNIVERSITY

T.Y. B.Sc. Electronics SEM – VI, April 2016

8-Bit microprocessor programming and application -II

SUB CODE: US06CELE03

DAY	: Saturday		TOTAL MARKS: 70			
Q. 1	Choose the correct answer.			_		
(1)	RET is instruction.			[10]		
	(A) One byte	(C)	Two byte			
	(B) Three byte	(D)	Four byto			
(2)	Maximum time delay using single register program is					
	(A) 1 sec.	(c)				
	(B) 1.8 ms	(D)	None of above			
(3)	Rotate accumulator right instruction is	(-,				
	(A) RLC	(C)				
	(B) RET	(D)				
(4)	Counter program is used to	(-,	None of above			
	(A) Counting	(C)	Stacking			
	(B) Masking	(D)	None of above			
(5)	all delays	nd	techniques are used			
	(A) Nesting, subroutine	(C)	Looping , counting			
	(B) Debugging, indexing	(D)	None of above			
(6)	If accumulator (A) = 39 H, after execution of ANI FO, the contain of Accumulator is					
	(1.1) 3011	(C)	O3 H			
	(B) 39 H	(D)	None of above			
(7)	To set the carry flag instruction is used.					
	(A) PCHL	(C)	CMC			
	(B) STC	(D)	None of above			
(8)	is unconditional jump instruction.	alproise d				
	(A) JNZ	(C)	JNC			
	(B) JMP 2F0F H	(D)	None of above			
(9)	The decimal equivalent of FD _H is =	a lolas				
	(A) 532	(C)	253			
	(B) 235	(D)	None of above			
(10)	A down counter counts in order.					
	(A) Ascending	(C)	Descending			
	(B) Both A and B	(D)	None of above			

Q.2	Answer the following.(attempt any ten, each two marks) [20				
(1)	List arithmetic instruction related to memory in 8085 up.				
(2)	What is use of counter and delay in program?				
(3)	Which instructions are used to store and retrieve data from STACK?				
(4)	Define RAR and RRC instruction.				
(5)					
(6)	, , , , , , , , , , , , , , , , , , , ,				
(7)					
(8)	The state of the s				
(9)	and this delay using single register.				
(10)	Write a program to load 4C H in register D, multiply 4C H by 2 using rotate instruction. Specify the result.				
(11)	Explain El and DI briefly.				
(12)					
Q.3	(A)	Explain rotate instruction in detail.	[05]		
	(B)	Explain compare instruction in detail.	[05]		
		OR	[05]		
Q.3		A 15 byte of data are stored in memory location starting at XX60 H. Write a program to add all these data bytes and save the carry generated in a register. Display the sum at output PORTS.	[10]		
Q.4	(A) (B)	Explain STACK instruction with illustration. Discuss CALL and RETURN instruction.	[05]		
	ι-,	OR	[05]		
Q.4	(A)	Write a program to count continuously in hexadecimal from AF_H to OO_H in system with 1 micro second clock period. Setup time delay of 0.8 millisecond between each count. Display the count at output PORT. (Take no. of loop T- state =15)	[10]		
Q.5		Write program to convert a BCD number stored in memory to its equivalent binary number and save the answer in output buffer memory. OR	[10]		
Q. 5		Write program to convert a BINARY number stored in memory to its equivalent unpacked BCD number and save the answer in output buffer memory.	[10]		
Q. 6		What do you mean by interrupt in 8085 μp system? List priority of interrupts and Discuss vectored interrupt in detail.	[10]		
0.6		OR			
Q. 6		A set of ten pack BCD number is stored in memory location starting at XX00 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.	[10]		