Pyst / may

Q. P. Code: 33408

[Total Marks: 75]

(2½ Hours)

N.	B.: (1) Al	II questions are	compulsory.				
	$(2) \overline{M}$	ake suitable as	sumptions wherever i	necessary and state the assumptions made	3		
	(3) Aı	nswers to the sa	me question must be	written together			
			ght indicate marks.				
	일을 그림이 되었다. 그 이 나가 바로 그리 하고 안 하지만 살았다.		d diagrams wherever	necessary			
			cammable calculators				
	(0) 03	se of tron progr	ammable calculators	is anomed.			
1.	Attempt	t <i>any three</i> of th	ne following:		15		
a.		es a Microproce			- 13		
þ.			terms of Compilers:		139		
φ.	i)	Source code	terms of complicis.				
	ii)	Object code					
0			ised as a storage elem				
c.							
d.			iternai data operations	and the register of the 8085			
	micropro						
e.	Describe the various buses in the 8085 microprocessor.						
-f.	Draw a r	neat labelled dia	gram of the 8085 Mic	roprocessor,			
2.	Attempt	any three of th	re following:		15		
a.				uction in 8085 microprocessor	13		
b.	Write a	short note on M	emory mapped I/O tec	brigues			
c.	List and	describe the year	ious Arithmetic inetro	infiques. actions in the 8085 microprocessor			
۷.	inetruction	on cet	ious Ainmieuc mstri	cuons in the 8085 microprocessor			
d.		instruction set. Write an assembly program to subtract the contents of memory location 2041H from					
u.	2040U a	itents of memory location 2041H from					
	2040H and store the difference in 2050H. Compare and explain the following instruction:						
е.	Compare						
			DAX and STAX		2		
		The state of the s	and JNC		2		
C			LT and NOP		1		
f.	Explain the working of the instructions XRA A and the ANI FOH.						
3.	Attempt	any three of th	e following:		15		
a.		rite an assembly program for 8085 microprocessor to exchange the contents of					
	memory	location 2020H	and 2021H	cessor to exenange the contents of			
b.				check the if the hexadecimal number is			
	odd or ar	reven number	actions can be ased to	check the if the nexadecimal number is			
c.	odd or an even number. Calculate the time delay for the 8085-based Microcomputer with 2 MHz clock						
Ο,			Tor the 8083-based M	icrocomputer with 2 MHz clock			
	frequenc						
	Label	Mnemonics	Operand	T cycle			
	LOOD	LXI	В, 2384Н	10			
	LOOP:	DCX	В	6			
		MOV	A,C	4			
	ANOWAY !	ORA	В	4			
		JNZ	LOOP	10/7			
d.	Write a p	rogram to gene	rate a Square wave of	a 500 microsecond delay.			
e.	Explain t	Explain the effect of the POP and PUSH instruction on the Stack Pointer.					

List and describe the working of Various Calls and Returns instruction in 8085

f.

microprocessor

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4.	Attempt any three of the following:	15
a.	Write an assembly program for 8085 microprocessor to convert (1111-1111) 2 to its	
	BCD equivalent.	
b.	Explain the following instruction for 8085 microprocessor:	9000
	i) DAA	
	ii) XCHG	
c.	Explain the working of an interrupt in 8085 microprocessor.	KAK
d.	What is the function of an editor, assembler and loader?	
e.	List and describe of files generated after cross assembling	144
f.	Write a short note on SIM instruction.	
5.	Attempt any three of the following:	13
a.	What are the features of Pentium Processor.	
b.	List and describe the special Pentium registers	
c.	Describe the memory management in Pentium and Pentium pro processors	Kr.
d.	Compare Core i5 and i7 processors.	
e.	Describe the general SPARC Architecture.	
f.	What are the various instruction format in the SPARC Architecture?	