V.P & R.P.T.P. SCIENCE, V.V.NAGAR B.Sc. (V<sup>th</sup> SEM.) INSTRUMENTATION (VOC.) Internal Exam

DATE:	06/10/2018		SUB: US05CII	VV05
TIME:	10:00 am to 12:00 noon		MARI	<b>KS-50</b>
Q-1	Choose correct answer			[80]
1.	8085 microprocessor has			
	(A) 40 pin	(C) 8 pin		
	(B) 20 pin	(D) none of above		
2.	The content of accumulator is A5 H, after execut		nes .	
	(A) 55 H	(C) A5 H		
	(B) AA H	(D) none of above	C.P.S	cien
3.	is the 16-bit register in 8085 μp.	(=)	1/2	10
	(A) Temporary register	(C) accumulator	1/3/	
	(B) flag register	(D) none of above	(c) LIBR	
4.	is machine control instruction.	(E) Hone of above	1171.	
1.	(A) NOP	(C) MOV	May 1	-
	(B) JNC	(D) none of above	N. K.	185
5.	Following are control signals in 8085 μp.	(b) Horie of above	The state of the s	us desperation
J.	(A) WR and RD	(C) SOD and SID		
		(D) none of above		
C	(B) AD <sub>0</sub>	(D) Holle of above		
6.	JMP is byte instruction.	(C) throo		
	(A) two	(C) three		
7	(B) one	(D) none of above		
7.	CALL and RET are type instruction.	(6) [		
	(A) Advance	(C) Logical		
_	(B) Branch	(D) none of above		
8.	RRC instruction is type of instruction.	(0) (		
	(A) logical	(C) branch		
	(B) data transfer	(D) none of above		
Q-2	Short answer type question. (any Five)			[10]
1.	Why data bus is bi-directional in 8085 μp?			
2.	State characteristics of logical instruction.			
3.	Differentiate between DCR and DCX instruction.			
4.	State different addressing mode of 8085 μp.			
5.	Define looping and counting technique.			
6.	List pins of interrupt control section of 8085 micr	oprocessor.		
7.	State meaning of RRC and RLC with illustration.			
8.	Explain HLT instruction.			
Q.3	Draw the architectural block diagram of 8085 $\mu p$	and discuss function of each se	ection of it.	[80]
	OR			
Q.3	Discuss concept of : 1) Bus timing 2) Generating	the control signals		[80]
Q.4	Explain classification of instruction 0f 8085 $\mu p$	according to operation and v	vord size with	[80]
	illustration.			
	OR			
Q.4	Explain method of writing, assembling and ex	ecuting a simple program in	8085 μp with	[80]
	example.			
Q.5(a)	Explain different logical instructions with suitable	e illustration.		[05]
Q.5(b)	Write a programme: to load 7C H and 3B H in r	egister C and D respectively. N	low increment	[03]
	content of C than add both the number and displ	-		
	OR			
Q.5(a)	Explain different data transfer instructions with s	uitable example.		[04]
Q.5(b)	Write a programme to load two numbers in tw		number from	[04]
4.5()	other such that carry flag will set and display the			[1
Q.6	Discuss different additional data transfer instruc		tructions with	[08]
4.0	illustration of each.		tradition with	[00]
	OR			
Q.6(a)	Discuss method of static and dynamic debugging	a programme		[04]
	Write a program to load 8D H and A7 H in regi		add both the	[04]
~.0(0)	numbers, if the sum is greater than FF H displa			[1
	cum	, or at output port o, otherw	ise display tile	