Roll Number:			
	Thapar Institute of Engineering	g & Technology, Patiala	
Department of Computer Science and Engineering			
Auxiallry Examination-Feb. 2023			
B. E. (Third Year): Semester-VI Course Code: UCS		Course Code: UCS617	
		Course Name: Microprocessor Based	
57-7-1		Systems Design	
Feb.	25, 2023		_
Time: 3 Hours, M. Marks: 100 Name of Faculty: Dr. Anju Bala			
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Note:	Attempt all questions with proper justifie	cation.	
	Assume missing data, if any, suitably.		
Q1(a)	What are various types of hardware interrupts in 8085 explain it.		(10)
Q1(b)	Differentiate between the following along with example:		(10)
	a) One byte, two byte and three byte Instruction in 8085		
	b) Based addressing and Based Indexed with Displacement addressing mode in 8086		
Q2(a)	Write the function and format of FLAG registe	r in 2026. How the physical address can be	(10)
Q2(a)	generated in 8086 using segment registers?	ill 8080. How the physical address can be	(10)
	generated in 8080 using segment registers?		
Q2(b)	Explain DAA instruction with example (10)		
Q2(0)	Explain DAA instruction with example		(10)
Q3(a)	Write a program to find the largest among two no. s in 8085.		(10)
Q3(b)	Describe the function of following pins in context	of 8085 and 8086):	(10)
40(0)	a) READY b) ALE c)Bus Reques		(10)
	X		
Q4(a)	Draw and explain the timing diagram for the instruction MVI A, 05H and indicate Total number (1		
	of T-states and Machine cycles required to execut	te the instruction.	
Q4(b)	Write the contents of accumulator through progra	m for SIM instruction that will mask RST 7.5,	(5)
	6.5 and unmask RST 5.5.		
Q5(a)	Explain AAA, AAD, AAM instructions with example in 8086 (12)		
Q5(b)	How PIC (Program interrupts Controller) can be	interfaced with 8086.	(8)