LOIOL.	A COLLEGE (AUTON	
1-7	B.Sc. DEGREE EXAMINA	ATION – COMPUTER SCIENCE
HEAT LAN VESTOR	SECOND SEMESTE	
	PH 2109 - MICRO	PROCESSOR 8085
Date: 26-04-2016 Time: 01:00-04:00	Dept. No.	Max. : 100 Marks
	PART -	-A
nswer all questions		(10×2=20)
1. What is a micropr	ocessor?	
Ĩ	ations performed by ALU of 8	085
-	f the address and data bus of 80	
4. Write an asm prog	gram to subtract two 8 bit no in	immediate mode of addressing
5. What is the differ	ence between SUB B & CMP	B instruction in µp 8085
6. What is an interru	pt ?	
7. List the features o	f IC8259	
8. Explain the two ty	pes of interfacing devices	
9. What are the oper	ating modes of port A of 8255	
10. Explain a three by	te with an example	
	PART –B	
nswer any four questions		(4×7.5=30)
11. Explain the flag struc		·
12. a)Specify the register	ven instructions (5 marks)	
MVIA, $45_{\rm H}$		
ADI, $63_{\rm H}$		
MVIB , 5A _H ORA B		
HLT		
	nature of Accumulator.	(2.5 marks)
13. Describe hardware po	(2.3 marks)	
-		number using direct mode of addressing
	s between standard I/O and me	-
16.Explain the functions		
-	IO/M c) HOLD d) ALE e)	

PART – C			
Answer any four questions	(4×12.5=50)		
17. Draw a neat block diagram and explain the internal architecture of μp 8085			
18. Write an ASM program to find the smallest of ten 8 bit numbers in an array.	The numbers are stored		
in the memory location starting from 4300H			
19. a)Explain PUSH and POP instruction with an example(8 marks)			
b)Write a sequence of instruction that will load FF_H in C register and trans	fer the byte to a memry		
location whose address $is2050_{H}$	(4.4 marks)		
20. Answer the following			
i. Explain SIM and RIM instructions.	(6 marks)		
ii. Briefly explain how INTR interrupt is handled by μP 8085.	(6.5 marks)		
21. (a) How are the address and data lines are demultiplexed in 8085? Explain with	n a diagram		

(8.5 marks)

(b)What happens when NOP instruction is executed? What are the uses of NOP instruction.

(4 marks)

22. Explain the working of the programmable interrupt controller 8259 with a neat block diagram.
