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## SARDAR PATEL UNIVERSITY

## MASTER OF COMPUTER APPLICATIONS SEMESTER – III EXTERNAL ATKT EXAMINATIONS PS03CMCA05 (System Software)

Monday Nov 26th, 2018

Time	: 2:00	pm to 5:00 pm		Max. Marks: 70		
O-1	Choos	e the most appropriate option	for each qu	estion: [8]		
1.	The	register is also	called the acc	cumulator.		
		AL		AH		
		AX		None of these		
2			ade to conta	in the address of the next memory word		
2.	in the	target program				
		IP	В.	AP		
	C.	SF		None of these		
3.	The	instruction detern	nines shifts t	he bits in the operand by rotating them.		
		MOV		ROL		
		LEA	D.	None of these		
4.		is an example of the 8086 control flags.				
		SF		ZF		
		CF	D.	None of these		
5.		eliminates the need to memorize numeric operation code.				
	Α.	Symbolic Operands Variables	В.	Mnemonic		
	C.	Variables	D.	Data Declared		
6.	,	translate a predicate co	ntaining rela	tional and boolean operators into		
	comm	ands to search a database				
	Α.	Text Formatter	В.	Pretty Printers		
	C.	Text Formatter Query interpreters	D.	Query compiler		
7.		analysis tokens are grouped hierarchical into nested				
	collect	tions with collective meaning		•		
		Lexical		Linear		
				None of these		
8.	. Synta:	x-analysis phase is also know	n as			
	Α.	Lexical		Herarchical		
	C.	Semantic	D.	None of these		



(P.T.0)

Q-2	Answer the following questions (Any Seven):	[14]				
1.	List different types of bus available in 8086 assembly programming.					
2.	Define: 1) Problem Oriented Language 2) Procedure Oriented Language					
3.	Write 8086 assembly interrupt code used for taking single character input from user.					
4.	List all four general sections assembly program.					
5.	What is a Mnemonic Operation Code?					
6.	What is a declarative statement? Give its examples.					
7.	What is a literal?					
8.	Define the following: a)Silicon compilers b) Static checkers					
9.	List and explain different types of Real time system.					
Q-3	Answer the following questions:					
A.	Explain bus interface unit 8086 Microprocessor architecture.					
В.	Justify that a program generator domain increases the reliability of the generated program.	[6]				
	OR					
В.	Write an assembly program to input a character and convert it in its equivalent uppercase character.	[6]				
Q-4	Answer the following questions:					
A.	. Write a note on basic structure of an 8086 assembly program.					
В.	List and explain different types of Iteration control 8086 Assembly Instructions.					
	OR					
В.	Explain different types of statements available in assembly language.	[6]				
Q-5	Answer the following questions:					
A.	Write a note on Table of Incomplete Instructions. Explain its usage.	[6]				
В.	Explain the process of two pass translation in detail.	[6]				
	OR					
В.	Discuss Hierarchical analysis and lexical analysis occurring during compilation process.	[6]				
Q-6	Answer the following questions:					
A.	Discuss the working floating-point unit in embedded systems.	[6]				
	Write a note on Self relocating Program.	[6]				
	OR					
В.	Justify the use of C programming in different embedded systems.	[6]				

