

[30/A-24] SI

SEAT No.

Total number of printed pages: 2

SARDAR PATEL UNIVERSITY

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

Saturday, April 13th, 2019

Time	e: 2:00	0 pm to 5:00 pm			Max. Marks: 7
Q-1	Choos	se the most appropriate	option for each qu	estion:	[8
		is the program th			
	langua	age program.	·		
	A.	Migrator	В.	Interpreter	·
	C.	Assembler	D.	None of these	
2.	BIOS	interrupt is give	_ value		_
	A.	int 11h	В.	int 21h	
	C.	int 1h	D.	int 10h	
3.		instruction shi	fts each bit in the de	stination some number	er of bit positions to
	the rig	ht.			-
	A.	SHL		SHD	
	C.	SHR	D.	None of these	
4.		is an example of the	e 8086 conditional f	lags.	
	A.	IF	В.	DF	
	C.	ZF	D.	None of these	•
5.		implies replacemen	nt of a character stri	ng by another charact	er string during
	progra	m execution			
	A.	Semantic expansion	В.	Lexical expansion	
	C.	Semantic expansion Both A & B	D.	None of these	
6.		eliminates the need t	o memorize numeri	c operation code.	
	Α.	Symbolic Operands	В.	Variables	
	C.	Mnemonic	D.	Data Declared	
7.	An	statement	indicates an action	to be performed durin	ng the execution of
	the ass	embled program.			
		Imperative	В.	Declarative	
	C.	Directive	D.	None of these	
8.	Linear	-analysis phase is also kr	nown as		
	A.	Lexical	B.	Hierarchical	
	C.	Semantic		None of these	
				•	(A = A)

(RTO)

Q-2	Answer the following questions (Any Seven):	[14]				
1.	Define the following: 1) Execution gap 2) Language Processor					
2.	Differentiate between Problem oriented and Procedure oriented languages.					
3.	Write the code snippet to input a string in a 8086 assembly program.					
4.	List all four section of assembly program.					
5.	List and explain two types of Macro expansions.					
6.	Explain format of any assembly language statement.					
7.	List different uses of embedded system.					
8.	Define the following: 1)Pretty Printers 2) Hard Real-time system					
9.	Explain "RCL" 8086 assembly instruction with code.					
Q-3	Answer the following questions:					
A.	Write a note on different types of active flags available on 8086 Microprocessor architecture.	[6]				
В.	Explain LOOP, LOOPE and LOOPNE instructions.	[6]				
	OR					
В.	Justify the statement, "Semantic gap has consequences like large development time, large development effort and poor quality of s/w".	[6]				
Q-4	Answer the following questions:					
	Answer the following questions: Discuss Macros in brief.	[6]				
A.		[6] [6]				
A.	Discuss Macros in brief.					
A. B.	Discuss Macros in brief. Explain the different types of analysis of compiler.					
A. B. B.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR	[6]				
A. B. B. Q-5	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail.	[6]				
A. B. B. Q-5 A.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions:	[6] [6]				
A. B. B. Q-5 A.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions: Write a short note on error handling and reporting in Compiler.	[6] [6]				
A. B. B. Q-5 A. B.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions: Write a short note on error handling and reporting in Compiler. Write the steps of relocation algorithm.	[6] [6]				
A. B. B. Q-5 A. B. B.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions: Write a short note on error handling and reporting in Compiler. Write the steps of relocation algorithm. OR	[6] [6] [6]				
A. B. Q-5 A. B. Q-6	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions: Write a short note on error handling and reporting in Compiler. Write the steps of relocation algorithm. OR Discuss semantic analysis and lexical analysis occurring during compilation process.	[6] [6] [6]				
A. B. B. Q-5 A. B. Q-6 A.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions: Write a short note on error handling and reporting in Compiler. Write the steps of relocation algorithm. OR Discuss semantic analysis and lexical analysis occurring during compilation process. Answer the following questions:	[6] [6] [6] [6]				
A. B. B. Q-5 A. B. Q-6 A.	Discuss Macros in brief. Explain the different types of analysis of compiler. OR Explain any four assembly directive statements in detail. Answer the following questions: Write a short note on error handling and reporting in Compiler. Write the steps of relocation algorithm. OR Discuss semantic analysis and lexical analysis occurring during compilation process. Answer the following questions: Discuss how external references are resolved by linkers.	[6] [6] [6] [6]				

