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SARDAR PATEL UNIVERSITY

MASTER OF COMPUTER APPLICATIONS SEMESTER – III EXTERNAL EXAMINATIONS PS03CMCA24 (System Software)

Monday, Nov 26th, 2018

ıme	e: 2:00) pm to 5:00 pm		Max. Mari	cs: 70
Q-1	Choos	se the most appropriate o	ption for each qu	uestion:	[8]
1.	The d	ata bus of 8086 is of	bit	s	
	A.	8	В.	16	
	C.	24	D.	32	
2.	·	is not an example of	the 8086 control	l flags.	
	A.	SF	В.	IF	
	C.	ZF	Ð.	None of these	
3.	The	instruction de	etermines the off	set of the variable or memory location	4,1
	named	l as the source and puts t	his offset in the in	ndicated 16-bit register.	
		MOV.	В.	OFFSET	
		LEA		None of these	
4.	The find by the	rst pass constructs the second pass.		of the source program for use	
	A.	Mnemonic table	В,	Symbol table	
	C.	Link table		None of these	,
5.	asseml	bler should be placed in t	he memory word		
		BEGIN STORE		OPEN	
	Th. 2.	SIOKE	D.	START	
0.	I ne m	TII entry is a pair of (<i< td=""><td>nstruction addre</td><td>ess>,)</td><td></td></i<>	nstruction addre	ess>,)	
	Α.	<symbolic constant=""></symbolic>	В.	<opcode></opcode>	
		<instruction></instruction>		<symbol></symbol>	
7.	In any	syntax tree ,operator ap	pear as the	node.	
:	A.	interior	· B.	Children	
	C.	Exterior	D.	Root	
8.	The ch	naracters remaining in th	e input do not fo	orm any token of the language: this kind	
		ors can be detected at		• • • • • • • • • • • • • • • • • • • •	
		Syntax		Linear	
	C.	Semantic		None of these	
			Ô	CRT	· (1)

Q-2	Answer the following questions (Any Seven):				
1.	What is the meaning of 'n' in n-bit microprocessor.				
2.	Define: 1) Semantic Gap 2) Specification gap				
3.	Write 8086 assembly interrupt code used for displaying single character output to user.				
4.	List and explain different types of Real time system.				
5.	What is an Imperative statement? Give its examples.				
6.	. Define: 1) Lexical expansion 2) Semantic expansion.				
7.	7. Explain different functions performed by Preprocessors.				
8. List the reasons for changing the origin of any program by the linker or loader.					
9.	9. Draw the diagram showing a schematic of program execution.				
Q-3	Answer the following questions:				
A.	A. List and explain different types of active flags available on 8086 Microprossesor architectur				
В.	Justify that "Introduction of PL domain reduces the severity of the consequences of semantic gap"	[6]			
	OR				
В.	Write an assembly program to input a character and convert it in its equivalent ASCII value.	[6]			
Q-4	Answer the following questions:				
A.	Write a short note on Macro definition.	[6]			
В.	List and explain different types of Conditional Transfer Assembly Statements.	[6]			
	OR				
В.	Explain Pass structure of Assemblers.	[6]			
	Answer the following questions:				
A.	Justify that "Literal differs from an immediate operand as constant".	[6]			
В.	Explain the process of single pass translation in detail.	[6]			
	OR				
В.	Discuss the context of a compiler.	[6]			
Q-6	Answer the following questions:				
A.	Discuss different tasks performed by peripheral chips embedded in 8086 processor.	[6]			
	Explain how external references are resolved by linkers.	[6]			
	OR STATE OF THE PROPERTY OF TH				
В.	Write a note on debug monitors. Explain the steps in dynamic debugging of programs.	[6]			
	entantis. Tarangan salah				