USN

Fifth Semester B.E. Degree Examination, December 2010 System Software

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting

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ractic	1		PART - A	
co moment as maipractice	1	а. b. c.	i) 032600h ii) 03C300h iii) 0310C303h if (B) = 006000, (Pc) = 003000, (X) = 000090. With respect to Pentium pro architecture, explain the following: i) Instruction format ii) Registers	(06 Marks) (10 Marks) ssing mode.
	2	a.	Define assembler directive. Explain the different types of directives used in	(04 Marks)
		b. c.	What is the need of pass 2 assembler? Reason out with a simple example. Give an algorithm for pass 1 of 2 pass assembler.	(08 Marks) (04 Marks) (08 Marks)
		 a. Differentiate between literal and an immediate operand. Give an example for each. (05 Marks) b. Define control section. How does control section differ from the program blocks? Explain 		
		c.	With an example, explain the multipass assembler.	(10 Marks) (05 Marks)
		a. b.	What do you mean by relocating loaders? Explain the method for relocation object program. Explain, with a figure, dynamic linking. Discuss its advantage.	on as a part of (10 Marks) (10 Marks)
5	a b c	ı.]). (PART – B List the task performed by document linking process in an interactive system. Give the relationship between editing and viewing process. Explain the features of interactive debugging system.	(06 Marks)
6 7		. I . V p	List m/c independent macro processor features. Explain any two with an exam With an illustrative example, explain the macro processing features of Norocess.	(10 Marks) ple. (10 Marks) MASM macro (10 Marks)
,	b.	_	Explain the structure of Lex program, with an example. Give regular expression for the following:	(06 Marks)
8	c.	•	'C' - variables ii) Integer data iii) Floating point data /rite Lex program to count the number of words in a text file.	(06 Marks) (08 Marks)
J	a. b. c.	op	xplain shift reduce parsing, with an example. Trite yacc program to recognize the given arithmetic expression containing the perator with + and - having highest precedence. That do you mean by ambiguous grammar? How it can be overcome? Illust ample.	(06 Marks) 1g +, -, /, × (08 Marks) 1rate with an
				(06 Marks)