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College of Engineering, Pune End Semester Examination-Nov-Dec-2012

Course- B.Tech. Branch- Computer Engineering Semester- V

CT-304 / System Programming

Date - / /2012 Time - Duration: 3 hrs. Max. Marks: 50

Instructions:

1. Answer all questions.

- 2. Neat diagrams must be drawn wherever necessary.
- 3. Black figures to the right indicate full marks.

4. Assume suitable data, if necessary

			Marks
Q. 1	А	What are different language processing activities?	2
	В	What is forward reference problem? How is it handled in two-pass assembler? Explain the working of two-pass assembler with the help of neat flowchart.	8
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Q. 2	А	How is macro defined and called? Explain the concept of macro definition within a macro.	5
	В	What are main functions of loader? Explain any two loader schemes with advantages and disadvantages.	5
Q. 3	А	What is dynamic loading? List advantages of overlay structure.	3
	В, ,	Distinguish between DFA and NFA.	3
	С	"Direct linking loader is a general re-locatable loader". Justify.	4
Q. 4	А	Differentiate between Top-down and Bottom-up parsing. Explain each	5

		of them with suitable example.	
	В	What is the need of DLL? What is the use of callback function in DLL?	5
Q. 5		Write a short note on following (Any 4)	10
	Α	Linkage editor	
	В	Lexical analysis	
	С	Recursive macro expansion	
	D	YACC	
	Е	Dynamic linking	

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