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Reg. No.:....

Name :

Fifth Semester B.Tech. Degree Examination, November 2014 (2008 Scheme)

08.504 : SYSTEMS PROGRAMMING (RF)

Time: 3 Hours

PART-A

Answer all questions. Each question carries 4 marks.

- 1. Explain the differences between RISC and CISC machines.
- 2. What are the differences between system software and application software?
- 3. Explain different floating point representation used in ultra SPARC machine.
- How expressions can be defined in assembly language program? Explain the difference between absolute expression and relative expression.
- 5. Write down the algorithm for absolute loader.
- 6. Explain about the pc relative and base relative addressing mode. Explain about different assembler directives required to specify base relative addressing mode.
- 7. What is the difference between following sequences of statements:
 - a) LDA#3
 - b) THREE EQU 3 LDA # THREE
 - c) THREE EQU 3 LDA THREE.
- 8. Explain the difference between macros and subroutine.
- 9. Explain the term loading, linking and relocation.
- 10. Specify the tasks performed by a document editing process.

(10×4=40 Marks)



PART-B

Module - I

11.	a)	Explain the architecture of Pentium Pro.	10
		Write SIC/XE program to find number of odd numbers in a set of integers stored in the memory.	10
		OR	
12.	a)	Explain the architecture of Power PC.	10
	b)	Write SIC/XE program to add a set of numbers.	10
		Module – II	
13.	a)	Explain about different machine independent assembler features.	10
	b)	Explain the design of a one pass assembler with suitable example.	10
		tow excressions can be defined a ussembly language of SO 17 Explain th	
14.	a)	Explain the pass 1 and pass 2 algorithms of a two pass linking loader.	15
	b)	What is meant by dynamic linking? How is dynamic linking performed? Module – III	5
15.	a)	Explain about machine independent marco processor features.	10
	b)	With a neat diagram explain the design of an editor structure.	10
		OR CLUC LOCATION	
16.	Ex	plain different phases of a compiler.	20
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