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Reg. No.:....

Name :

Third Semester M.C.A. Degree Examination, May 2009 06.305.1. : SYSTEM PROGRAMMING (Elective – I)

Time: 3 Hours Max. Marks: 100

Instructions :a) Answer all questions from Part A.

b) Answer any two questions from each Module of Part B.

PART – A

- 1. Explain how does a hardware influence a system program.
- 2. What are the differences between application and system programming?
- 3. What are linkers and loaders?
- 4. Define addressing modes. What are the addressing modes of SIC machine?
- 5. Explain any four assembler directives.
- 6. What is assembly language program? Give its structure.
- 7. What is macro invocation statements?
- 8. What is finite automata?
- 9. Explain top-down parsing with suitable examples.
- 10. What is code optimization and what are its types? (10×4=40 Marks)

P.T.O.

PART - B

MODULE - I

11.	. Write an assembly language program to divide two eight bit data.		
12.	2. Explain the architecture of CRAY machine.		
13.	How does pentium processor differ from other traditional machines ?	10	
MODULE – II			
14.	Compare MASM assembler with SPARC assembler.	10	
15.	15. Explain linkage editors with a neat block diagram.		
16.	Explain the design of a loader.	10	
MODULE – III			
17.	7. Explain conditional macro expansion in detail.		
18.	8. Describe the functions and capabilities of an interactive debugger.		
19.	Explain various phases of a compiler with neat diagram.	10	