

# SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E/B.Tech – CSE/IT

Title of the paper: System Programming

Semester: V

Sub.Code: 411507-412507-511507-512507-6C0101

Date: 04-05-2009

Max.Marks: 80

Time: 3 Hours

Session: AN

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PART – A

(10 x 2 = 20)

Answer ALL the Questions

1. Define Assembler.
2. Specify the task performed by the passes of a two pass assembler.
3. What do you mean by Macro Expansion?
4. Define Absolute Loader.
5. Define Tokens.
6. What is Context free grammar?
7. Define Parser.
8. Write short notes on Three Address Code.
9. What is the use of Flow Graph?
10. Define Dominators.

PART – B  
Answer All the Questions

(5 x 12 = 60)

11. Write in detail about the elements of ALP.  
(or)
12. Write short notes about Pass structure of Assemblers.
13. Write short notes on Macro, Macro definition and Call.  
(or)
14. Explain Self Relocating Programs.
15. Describe the structure of a compiler with all phases.  
(or)
16. Construct an NFA from a regular expression.
17. Explain Shift Reduce Parsing.  
(or)
18. Write in detail about Postfix Notation.
19. Describe the principal sources of optimization.  
(or)
20. Explain Depth-first Search.

