

Syed Ammal Engineering College – Ramanathapuram
Department of Computer Science and Engineering
Periodical Test I
10144CS602 – Principles of Compiler Design
(Common to III CSE A&B)

Date: 6/01/13

Max: 50 Marks

Part A

Answer all Questions:

5*2=10 Marks

1. Define Compiler and what are the various compiler construction tools?
2. What are the issues of the Lexical Analyzer?
3. Define the terms: lexeme, Pattern and Token.
4. Draw the transition diagram for relational operator?
5. Draw the NFA for Regular Expression $(a^* | b^*)^*$

Part B

6. a. Write short notes on token specification. (8)
(or)
b. Explain briefly about input buffering (8)
7. a. Explain the phases of compiler with neat diagram on a expression (16)
 $s:=a+(b - 20)$
(or)
b. Construct a Lexical Analyzer with Lex program that recognizes the token (16)
8. a. i. Explain the role of Lexical analyzer? (8)
ii. Write Regular Definition and transition diagram for unsigned number (8)
(or)
b. i. Explain Thompson's Construction an NFA from a regular expression. (8)
ii. Construct a NFA from given regular expression $(a/b)^*abb$ (8)

*****All the Best*****