Code No: R7311502



III B.Tech I Semester(R07) Supplementary Examinations, May 2011 AUTOMATA AND COMPILER DESIGN

(Common to Information Technology, Computer Science & Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. Discuss in detail about the Lex program specification. Write a Lex program for recognizing the int, real, while, for, do, #define and #include tokens.
- 2. Write short notes on the following:
 - (a) Top Down parsing.
 - (b) Error recovery in predictive parsers.
 - (c) Ambiguous grammars.
- 3. Write short notes on:
 - (a) Computation of First and Follow sets
 - (b) SLR Vs CLR parsers 5
 - (c) Handles and Handle pruning
- 4. What is use of intermediate code and it's generation in the compilation process? Explain about different types of intermediate codes with suitable examples.

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- 5. Explain Unrestricted Grammar and give the recognizer for the Unrestricted Grammar?
- 6. Explain Hash table Organization of Symbol tables for block structure Languages?
- 7. Explain the machine independent Optimization in Detail?
- 8. Write and Explain Heuristic Ordering algorithm for DAG with one example.
