MCA – 4TH Sem

Compiler Design

Section-A **Marks**

Attempt All Question **2*7=14**

1. What is Translator?

2. Differentiate b\w Compiler & Assembler.

3. Write a short note on Symbol Table.

4. What are prefix & Postfix notation?

5. What is Source to Source Compiler?

6. What are Quadruples?

7. What do you mean by Regular Expression?

Section-B

Attempt Any Three Question **3*7=21**

1. Explain Non-Recursive Predictive Parsing & Recursive Decent Parsing.

2. What is Language Processing System?

3. Explain Compiler Architecture with suitable diagram. Define DAG.

4. What is Parse tree? Calculate the Left most derivation & Right most derivation For the following, step by step-

Production Rules-

E -> E * E

E -> E + E

E-> id

Expression-

E+E*E

5. State & Prove Arden's Theorem. Explain Code Optimization Techniques.

Section-C

1. What are the Error recovery strategies?

2. Explain the All types of Recursive decant parsing. Explain Predictive Parser with Diagram.

3. Explain Bottom up Parser in details.

4. Differentiate b\w LL & LR Parsing.

5. Explain implementation of Lexical Analyzer.

6. Explain the Grammar & its type with suitable examples.

7. (i) Parse Tree & Ambiguity

(ii) Difference b\w NFA & DFA

(iii) Explain Thompson's Construction