

Assignment Questions – Compiler Design

Unit – I (Grammars & Automata)

1. Explain the topics-

Symbol, Alphabet, String, Language, Powers of sigma, Cardinality

2. What is **Language**?

3. What is **Grammar** & it's type?

4. What do you mean by **Automation**?

5. What is Automata?

6. What is **DFA & NFA**, differentiate them with example.

7. What is **Regular Grammar & Regular Expression**? Also explain the Operation performed on Regular Grammar.

8. State & Prove **Arden's Theorem**.

9. Conversion of **NFA to DFA** with example.

10. Explain **Thompson's Construction**.

11. What is **CFL**? Explain with example.

12. What is **Parse Tree** & it's type? Explain with example.

13 Explain **CFG** & it's **Simplification process**.

14. Explain **Ambiguity**.

15. Construct an DFA that accept string over {a,b}, that does not contain the string aabb in it.