UNIT-1

1)a)Explain about Language processing system in detail. [6M]**[L2]**
b)Explain the role of lexical analyzer in compiler construction tool process.[4M]**[L2]**

2) Consider the following grammar S → (L) |a L → L, S |S Construct leftmost and Right most derivations and parse trees for the following sentences: i. (a,(a,a)) ii. (a,((a,a),(a,a))). [10M]**[L3]**

3)a)Demonstrate the role of lexical analyzer .[5M]**[L2]**
b)What is a preprocessor? Explain various functions of a preprocessor. [5M]**[L1]**

4)a)Discuss about Recognition of Tokens? [5M]**[L3]**
b)Explain about DFA and NFA one example for conversion of NFA to DFA conversion. [5M]**[L2]**

5)Explain in detail about the phases of compilers with the following statement position=intial+rate*60? [10M]**[L2]**

6)a)Explain the role of lexical analyzer .[5M]**[L2]**
b)Explain in detail about Input buffering. [5M]**[L2]**

7)a) Explain the boot strapping process with suitable examples and diagrams.. [5M]**[L2]**
b)Define Transition diagram and represent transition diagram of RELOP operator. [5M]**[L1]**

8) Define Regular Expression. Explain the properties of Regular Expressions. Discuss with suitable examples. [10M]**[L2]**

9)a) Explain left recursion and left factoring with examples. [6M]**[L2]**
b)Define Token,pattern Lexeme. [4M]**[L1]**

10) a)What is LEX? Explain, in detail, different sections of LEX program. [6M]**[L1]**
b)Discuss about Ambiguity? [4M]**[L1]**