



SRM
INSTITUTE OF SCIENCE AND TECHNOLOGY
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DELHI-NCR CAMPUS, GHAZIABAD (U.P.)

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Assignment 1

Sno	Question	Co	Blooms
1	Explain How Finite automata are useful in the lexical analysis?	1	L2
2	Write short notes on token reorganization?	1	L1
3	Differentiate between compilers and interpreters?	1	L2
4	Write short notes on Input buffering scheme? How do you change the basic input buffering algorithm to achieve better performance?	1	L1
5	Discuss the Functions of Lexical Analyzer. Explain LEX tool.	1	L1
6	Design NFA for the regular expression $(X+Y)^*XY$ using Thompson Construction rule	1	L3
7	Construct a DFA for the following expression $(a+b)^*a(a+b)$	1	L3
8	Write algorithm for conversion of NFA to DFA	1	L3
9	Differentiate between phases and passes of compiler	1	L2
10	Check whether given grammar is ambiguous or not . If ambiguous convert it into unambiguous grammar $E \rightarrow E+E$ $E \rightarrow E * E$ $E \rightarrow ID$	1	L3