

**Name & Sign. :** \_\_\_\_\_

**Subject: Compiler Construction**

**Time: 20 min.**

Q.	Choose the appropriate choice	15 Marks
1.	An Ambiguous Grammar a) Generates only a single parse tree b) Generates more than one parse tree c) Cannot generate a parse tree	
2.	In lexical analysis the source code is broken up into meaningful units called a) Non Terminal                      b) Lexemes	
3.	Strings of characters representing lexical units of programs. a) Non Terminal                      b) Terminal                      c) Tokens	
4.	A finite state machine where for each pair of state and input symbol there may be several possible next states a) DFA                      b) Regex                      c) NFA	
5.	Choose the correct statement (a) Every construct that can be described by a regex can also be described by the CFG (b) Every construct that can be described by a CFG can also be described by a regex (c) Both a and b	
6.	A data structure for storing the names of the variables, and their associated attributes a) Regex                      b) Symbol table                      c) NFA	
7.	NFA and DFA accept _____ a) Context-free languages    b) regular languages    c) non-regular languages	
8.	Concatenates each string in L zero or more times a) Kleene Closure ( $L^*$ )    b) Positive Closure ( $L^+$ )    c) Concatenation ( $L1.L2$ )	
9.	A notation for specifying lexeme patterns a) Regex                      b) NFA                      c) DFA	
10.	A Transition Function( $\delta$ ) has two arguments a) The state and the input alphabet b) The state and the input word c) The initial state and the final state	
11.	Parsing the token stream to identify the grammatical structure of the stream a) Syntax analysis                      b) Parsing                      c) Semantic analysis	
12.	In Regular expression the highest Precedence is for a) Kleene Star                      b) Boolean 'OR'                      c) Concatenation	
13.	Written in a formal language and is used to specify the lexical structure of that language a) Regular expressions                      b) Kleene star                      c) Syntax analysis	
14.	If $r$ and $s$ are regexes: $r s$ is a regex with language a) $L(r) \cup L(s)$ b) $L(r)L(s)$ c) $L(r)$	
15.	If $r$ is a regex: $r^+$ is a regex that is equal to a) $rr^*$ b) $r^+ \in$ c) Both a and b	