

Department of Computer Science & IT, The Islamia University of Bahawalpur

Roll no: _____

Name & Sign. : _____

BSCS (7th) – Final

Subject: Compiler Construction

Course Instructor: Dr. Nadeem Akhtar

Time: 20 min.

Q.	Choose the appropriate choice	15 Marks
1.	If r is a regex: r^+ is a regex that is equal to a) rr^* b) $r^+ \epsilon$ c) Both a and b	
2.	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) $L(r)$	
3.	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	
4.	In Regular expression the highest Precedence is for a) Kleene Star b) Boolean 'OR' c) Concatenation	
5.	Parsing the token stream to identify the grammatical structure of the stream a) Syntax analysis b) Parsing c) Semantic analysis	
6.	A Transition Function(δ) 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	
7.	A notation for specifying lexeme patterns a) Regex b) NFA c) DFA	
8.	Concatenates each string in L zero or more times a) Kleene Closure (L^*) b) Positive Closure (L^+) c) Concatenation ($L1.L2$)	
9.	NFA and DFA accept	
	a) Context-free languages b) regular languages c) non-regular languages	
10.	A data structure for storing the names of the variables, and their associated attributes a) Regex b) Symbol table c) NFA	
11.	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	
12.	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	
13.	Strings of characters representing lexical units of programs. a) Non Terminal b) Terminal c) Tokens	
14.	In lexical analysis the source code is broken up into meaningful units called a) Non Terminal b) Lexemes	
15.	An Ambiguous Grammar a) Generates only a single parse tree b) Generates more than one parse tree c) Cannot generate a parse tree	