```
1. Regular languages are accepted by _
A. DFA
          B. Moore machines
                                 C. Mealy Machines
                                                        D. Pushdown automata
        __is output generation machine
A. DFA
          B. Moore machine
                                C. NFA
                                          D. Pushdown automata
3. The leaf nodes in the parse tree are _
A. Terminals B. Variables
                              C. Any
                                        D. Depending on the grammar
4. The CFG S --> aS / aSbS / \in is
                 B. RLG C. LLG
                                     D. Regular grammar
A. Ambiguous
5. The internal nodes in the parse tree are_
A. Variables
               B. Terminals
                             C. Any
                                        D. Depending on the grammar
6. The union of two regular languages is -----
                       B. Regular C. Context free language
A. Context sensitive
                                                                  D. None of the above
7. While applying pumping lemma on Regular Languages, the string w in L is divided to _
A. Two parts x, y
                    B. Three parts x y z
                                          C. four parts w x y z
                                                                  D. five parts u v w x y
8. In NFA, the input strings _
A. Have unique path
                        B. may have multiple paths
                                                       C. All paths end at final state
                                                                                       D. None
        _is the regular expression for representing all the strings ending with 00 A.
           B. 00 (0+1)* C. (0+1)*00 D. 10(0+1)*00
(0+1)^*
10. In Mealy machine the output depends up on _____
A. Present State
                   B. Present Input
                                     C. Both Present State and Input
11.
        Suppose the NFA has 3 states, then the maximum states in equivalent DFA are ____
      B. 3 C. 8
12. How many final states are there in Mealy and Moore machines?
                    C. Two
                              D. Any number of final states
A. Zero
          B. One
13. In DFA, the input strings __
A. Have unique path
                        B. Must have multiple paths
                                                       C. All paths end at final state
                                                                                        D. None
14. In Regular grammar how many variables are allowed in RHS
                                D. Any number of variables
A. One
          B. Two
                    C. Three
15. In CFG how many variables are allowed in LHS
                    C. Three
A. One
          B. Two
                                 D. Any number of variables
16. How many final states are there in DFA?
A. Zero
          B. One
                    C. Two
                              D. Any number of final states
17. Which of the following set of strings is not regular
A. Having even zero's
                         B. Strings with length=2
                                                   C. Having odd one's
                                                                             D. Equal number of a's and b's
        The regular expression for representing all the strings whose second and fourth symbols are 0 is
A. (0+1)^* B. (0+1)^*0(0+1)^*0(0+1)^* C. (0+1)^0(0+1)^0(0+1)^* D. None
19. Which of the following regular expression represents zero or more zero's
      B. 00*
                C. 10* D. None
20. Type-3 languages are accepted by
A. DFA
         B. PDA C. TM
                             D. LBA
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1. Regular languages are accepted by		
a) DFA b)Moore machines c)Mealy Machines d)Pushdown automata	()
2 is output generation machine a) DFA b) Moore machine c)NFA d)Pushdown automata	ſ)
3. is the regular expression for representing all the strings ending with 00	()
a) (0+1)* b) 00 (0+1)* c) (0+1)* 00 d) 10 (0+1)* 00	()
4. In Mealy machine the output depends up on a) present state b) present input c) both present state and input d)None	ſ)
5. Suppose the NFA has 3 states, then the maximum states in equivalent DFA are	(J
a) 8 b) 4 c) 3 d)6	()
6. Which of the following production is having left recursion		
a) $S \square S^*S$ b) $S \square S + S$ c) $E \square E + T$ d) All	()
7. The internal nodes in the parse tree are a) Variables b) terminals c) Any d) depending on the grammar	()
8. The leaf nodes in the parse tree are	()
a) Variables b) terminals c) Any d) depending on the grammar.	()
9. The CFG S□S+S / S * S / a / b is A) Ambiguous B) CNF c) GNF d) reduced grammar	ſ)
10. Which of the following is having writing capability on to the tape?	(J
a) DFA b) NFA c) PDA d) Turing Machine	()
11 If DUC of all the manducations contains either two variables on single terminal such	~~~~	
11. If RHS of all the productions contains either two variables or single terminal such to be in	graiiii	iiai is saiu
a) CNF b) GNF c) Left recursion d) Right recursion	()
12. If RHS of all the productions starts with a terminal and followed by any number of vigrammar is said to be in	<i>y</i> ariabl	es then
a) CNF b) GNF c) Both d) None	()
13. The union of two regular languages is		
a) Context sensitiveb) Regularc) Context free languaged) none of the above.	()
14. The intersection of Regular language and CFL is	· ·	J
a) CFL b) Context sensitive		
c) Regular d) none	()
15. TYPE-3 or Regular languages are accepted by a)Moore machines b) TM c)PDA d) Finite automata ()	
ajrioofe macimies by 111 cji bii ay i mice automata	J	
16. TYPE-2 or CFL are accepted by	•	
a) Mealy Machinesb) FA c)TM d)PDA17. While applying pumping lemma on CFL, the string in L is divided to	(J
a) Two parts x, y b) three parts x y z c) four parts w x y z d) five parts u v w x y	()
18. The production which has single variable on both sides of arrow is called	c	,
a) Unit production b) epsilon production c) CNF d) GNF 19. A string is accepted by PDA when	(J
a) Empty Stack b) Final state c) both d) None	()
20. In NFA, the input strings a) Have unique path b) multiple paths c) all paths end at final state d) None	ſ)
a i have unique dain of multiple dains — Clait baths end at final state — (1 None	- 1	j.