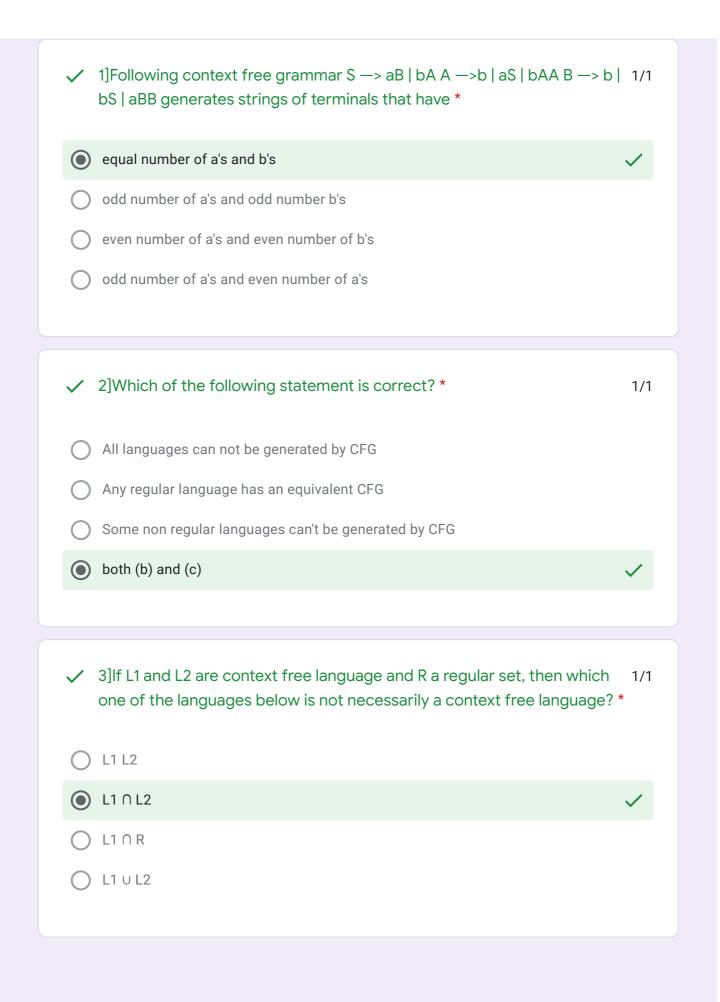
TCS _quiz-3_sh-20[co3]

Total points 9/10 ?



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Class *
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● TE-B
○ TE-C
Roll no *
50 •



4] In a context-sensitive grammar, number of grammar symbols on the left hand side of a production can't be greater than the number of *	1/1
grammar symbols on the right hand side	
terminals on the right hand side	
non-terminals on the right hand side	✓
all of these	
✓ 5]CFG can be recognized by a *	1/1
push-down automata	✓
○ DFA	
both (a) and (b)	
none of these	
6] A given grammar is called ambiguous if *	1/1
two or more productions have the same non-terminal on the left hand side	
a derivation tree has more than one associated sentence	
there is a sentence with more than one derivation tree corresponding to it	✓
obrackets are not present in the grammar	

7]The intersection of CFL and regular language *	1/1
is always regular	
is always context free	✓
oboth (a) and (b)	
need not be regular	
✓ 8] Which of the following denotes Chomskian hiearchy? *	1/1
REG ⊂ CFL ⊂ CSL ⊂ type0	✓
CFL ⊂ REG ⊂ type0 ⊂ CSL	
CSL ⊂ type0 ⊂ REG ⊂ CFL	
CSL ⊂ CFL ⊂ REG ⊂ type0	
✓ 9]The following grammar $G = (N, T, P, S)N = \{S, A, B\}T = \{a, b, c\}P : S \rightarrow aSaS \rightarrow aAaA \rightarrow bBB \rightarrow bBB \rightarrow c is *$	1/1
is type 3	
is type 2 but not type 3	✓
is type 1 but not type 2	
is type 0 but not type 1	

X 10]Consider the following CFG S → aB S → bA B → b A → a B → bS A → 0/1 aS B → aBB A → bAA Consider the following derivationS ⇒ aB⇒ aaBB⇒ aaBb⇒ aabSb⇒ aabbAb⇒ aabbab This derivation is *
 a leftmost derivation
 a rightmost derivation
 both leftmost and rightmost derivation
 neither leftmost nor rightmost derivation

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