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	Reg. No. :
Q	uestion Paper Code : 20419
B.E./B.	Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.
	Fifth Semester
	Computer Science and Engineering
	${ m CS~8501-THEORY~OF~COMPUTATION}$
	(Regulations 2017)
Γime : Three hours	
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
I. Give an exam	ple for proof by contradiction.
	differences between deterministic finite automata and non-finite automata.
	llar expression that denotes the language consisting of all strings r a single 0 followed by any number of 1s or a single 1 followed by f 0s.
. State any two	closure properties for regular languages.
. Derive the st	ring 0110 from the following context free grammar:
$S \rightarrow 0A0$	
$A \rightarrow 0A0 \mid 1A$	1 &
6. What is mean	t by the yield of a parse tree?
7. Find an equiv	alent grammar for the following after eliminating $arepsilon$ -productions.
$S \rightarrow ASB \mid \varepsilon$	The supposed to the supposed t
$A \rightarrow aAS \mid a$	
$B \to SBS \mid A$	bb

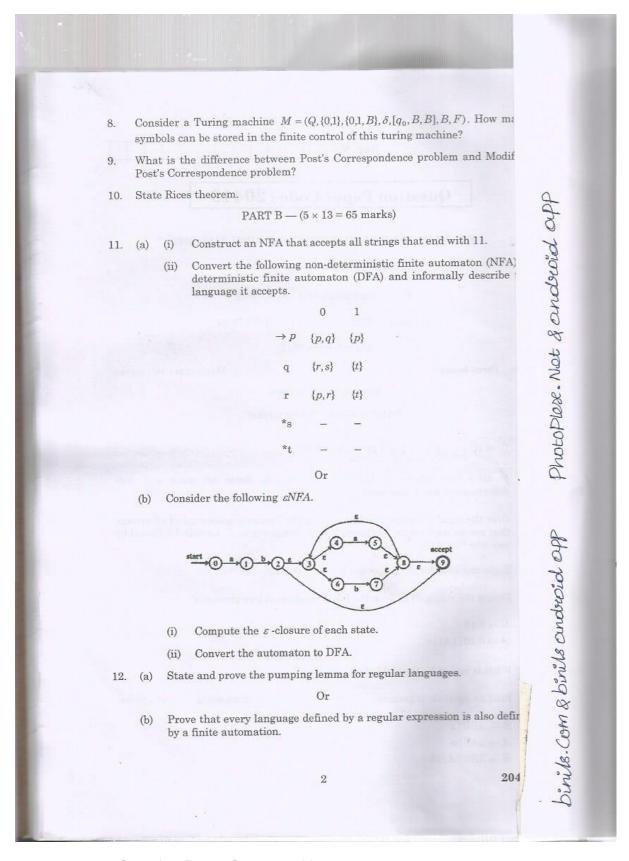
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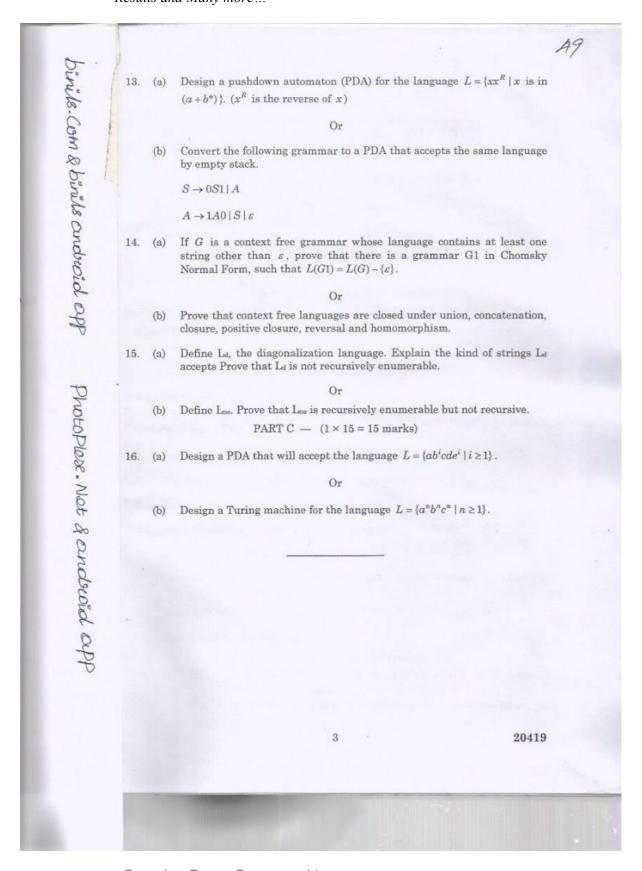
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