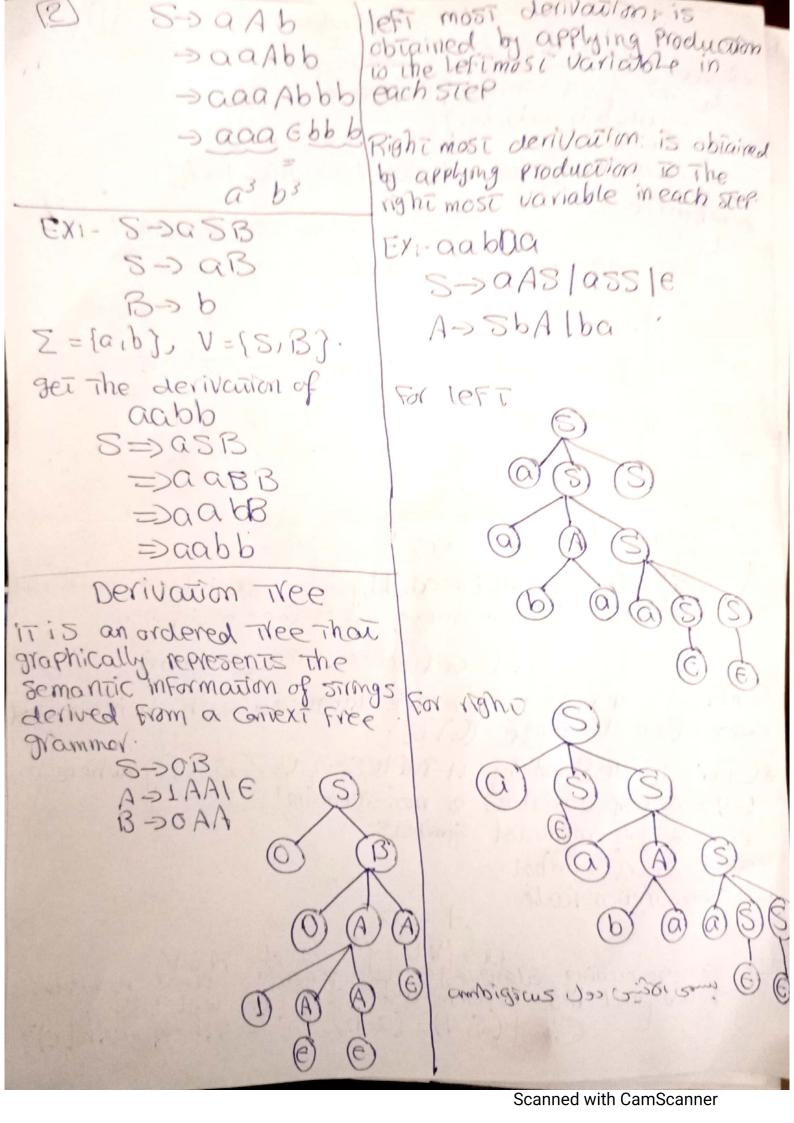
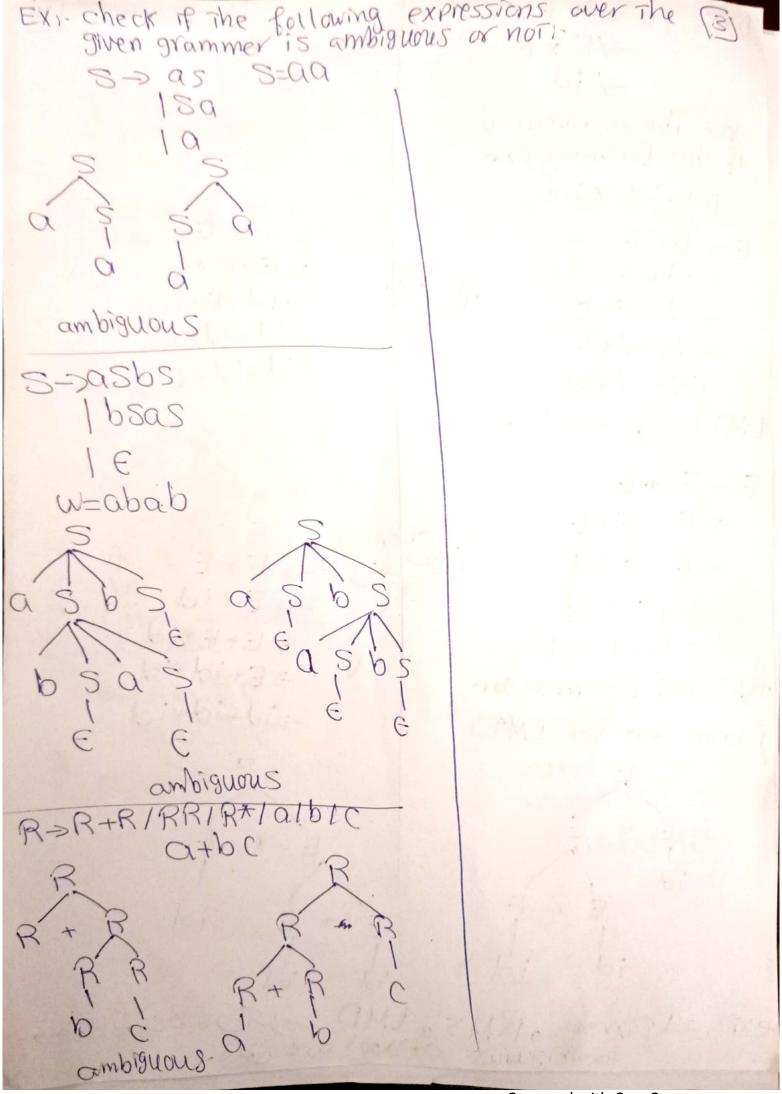
language => finite or infinite segma = = { ax & sei of aymbods 4= Set of all strings of length ? = {aa, bb, ab, baj. = {aaa, bbb, aba, aab, abb, baa, bba, bab] * inPinite L330 " " where each one starts with a = [a , aa aaa aba, abb, --]. Power of E Z'= Set of all symbols of length "O" => Z'= {E} epsilon Z'= sei of all symbols " " " " ("1" =) {a,b} 22 = 1 11 11 11 " " " = Caarbo, absbaz. Z = Z UZ UZ 2 UZh L= {€} U {a,b} U {aa,ba,cab,bb} -- € infinite automoda Comains all Possible strings their is forme or infinite. GF G (Convext Free grammer) CFG is used to generate language which is called Context Free language (CFL). *CFG is defined by 4-TuPles={V,Z,S,P}, where, 1-V = Set of variables or non-Terminals. 7-2 = sei of Terminal Symbols. 3-5= STart Symbol. 4-Perodución Rule. A-Ja EX: For generating alanguage that generates equal number of a's and b's in form anon so CFG will like in G= [(S,A), (a,b), (S > aAb, A>aAb(e)]

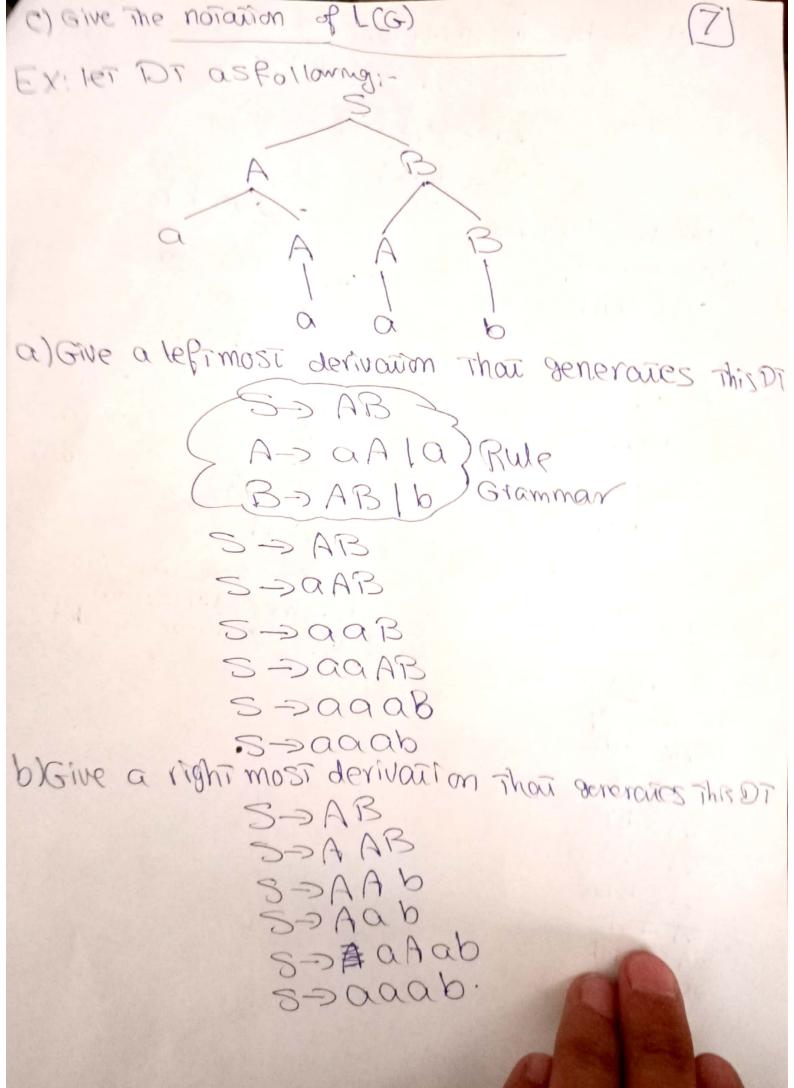




EXIS E>E+E =>/E X E -/ id get The derivation of the following exp idaid xid EDEXE E-> E+ E DE+EXE >id+E Another -Did+EXE -sid+ Ex E sid+id YE -sid+id*E >id+id KE -sid+id xid LMD>left most der E->E+E → E + E * E ->E+Exid EDEXE >E+ idxid -> Exid -> E+Exid sid+id xid -> E+idxid RMD-SRight mass der. bix bixbic Parse Tree For LMD exposition, and esmon estable sons land him axo Scanned with CamScanner

	Parser	(5)
Top-Down Parser(TDP)		Bottom-UP Parser (BUP)
Ex: check if the following of S->aAF A->Abc B->d.	30 mor using	an be generated Parse Tree: abb Code
TOP Down ABRE ABRE TOP Down TO		Bottom - UP abbcde // B A H bbcde
=>aAbcBe =>abbcBP =>abbcde		Right most derivation Saabe Saade Saabcde Sabbcde

EXTI- let & be the Grammari-S = absc/A A-> cAd/cd a) give a drivation of ababacaddec S=>absc => abab Scc => abab Acc = sabab cAd cc =>abab ccdd cc (eft most deriduce out or b) build the derivation wee of (a)



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=X1-let G be the grammar:-S-> ASB / ab / SS A-aAla B-> 6B/A -> aaa bb a) Give The left most Show That This grammar derivation of -aaabb is ambiguous. SJASB abab -SOA SB 3755 5->A5B -aaASB -555B Soabs -Jabs B ->005B Sabab -ababB > agaBB Dabab -saaabbB hence There are Two -aaabb left most derivations so This grammar is ambig b)give the right most derivation of aga bb 3-3 ASB -> AS bB SAS 868 -A866 -3A ASB SAGOBB Salab 3ASb

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