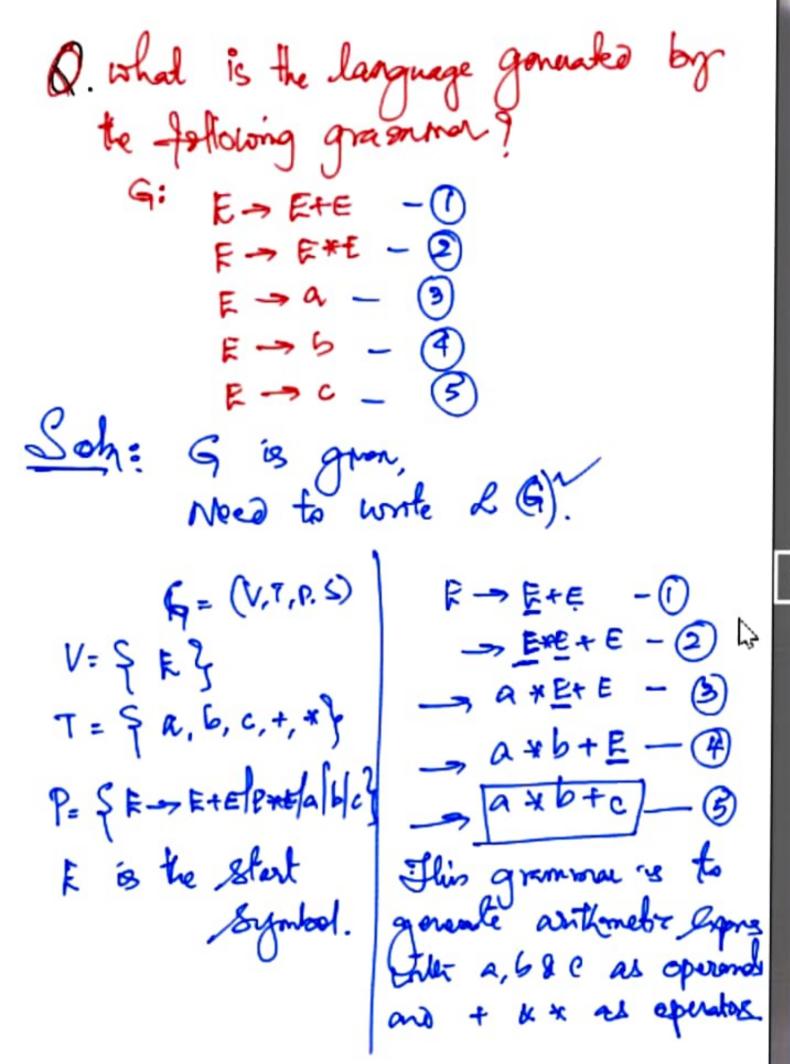


what is the string generated by the G= (U,T, P.S) V= & S, A, B, C} T = q 2,63 P= & S - ABC; A -ma; 9 is Start Rappulon. To generale the strup, effety the desirche > a BC Gramm G. _ ab C a b.e

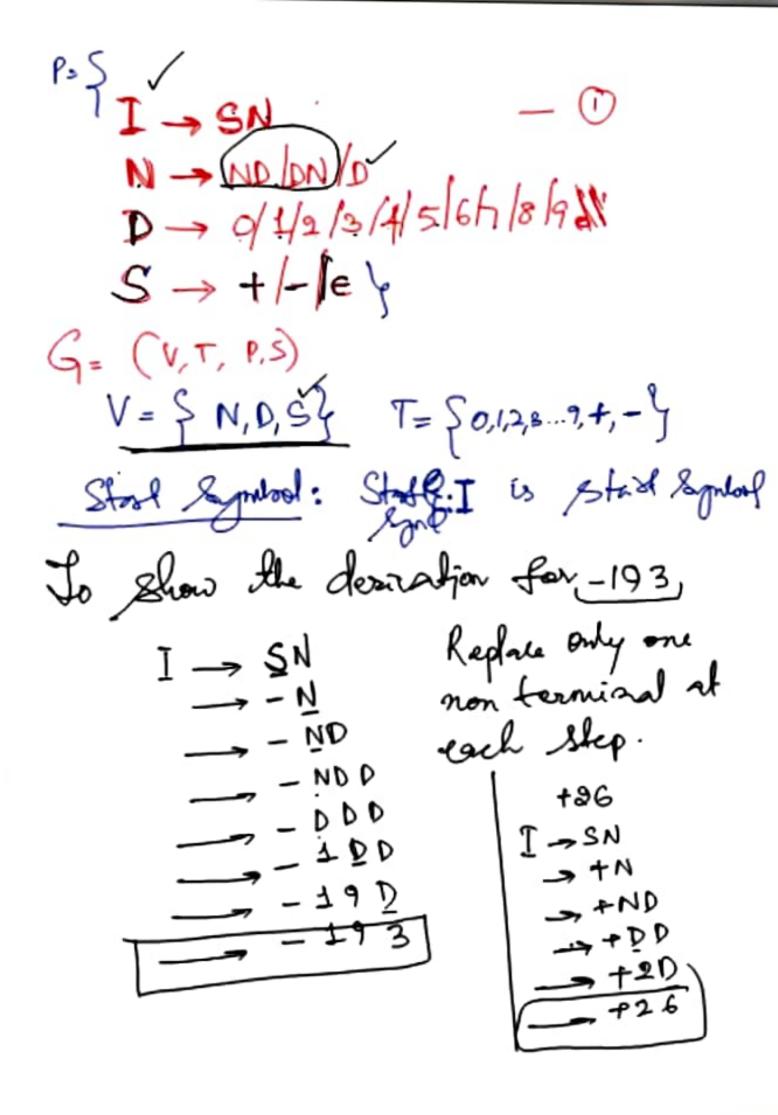
Notations:
1) Nog-terminals are represented by hoper case letters. Non-terminals are also saled as 'VARIABLES' (V)
upper case letters. Non-terminals me
also salled as VARIABLES (V)
Q Terminals are represented by
lower case letters, digite and Special
Derminals are refresented by lower Case letters, digite and special symbols (T)
Terminals connot be replaced.
(3) Production: (Run) (P)
Always indicated by new ->
A - aB
NT T NT
RHS 100 asa broduelon will be
segnance of Terminals and for non-terminals
A -> Genow from of production
. AEV AND KE (VUI)
9e.s

Date: 10.10.8090: 1. Worke the grammar to generated "Signed integers". Integer: a nomber Defor. A digit is a necomber.

nounder followed by digits.
Digit followed by nember +28, -39 (650) D -> 0/1/2/3/4/5/6/7/8/9 N - ND/DN



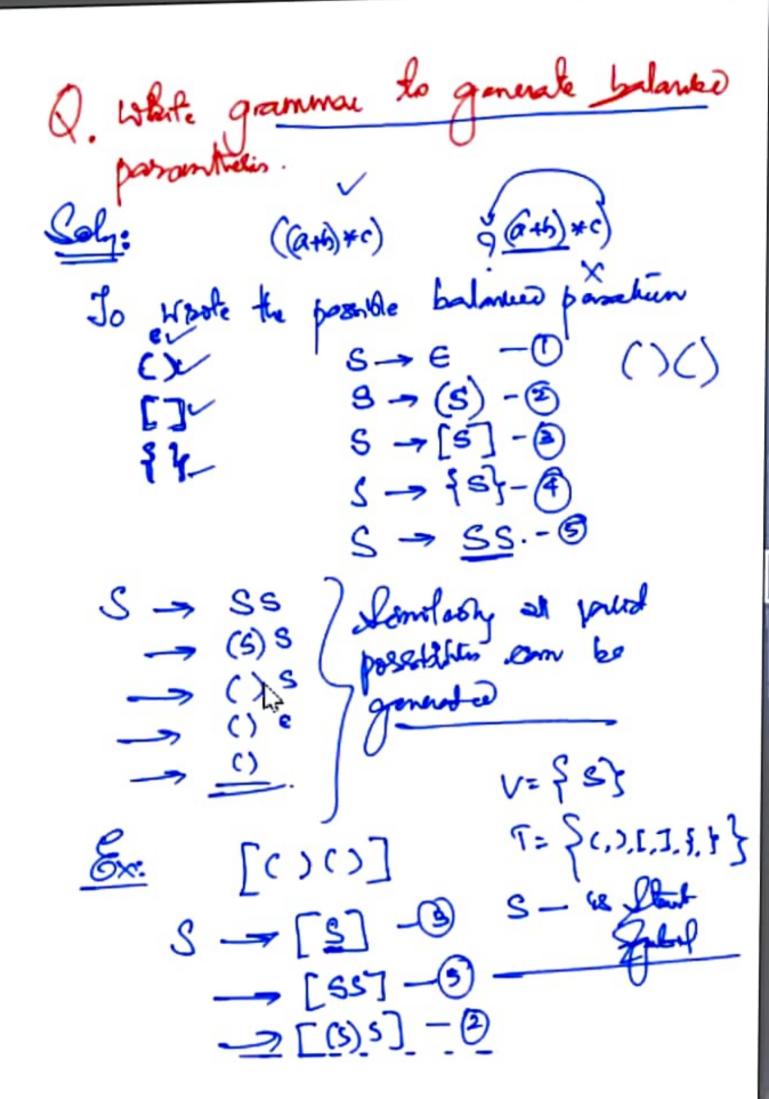
Q. Write gramma to generale the L= & W: 7a(w) = 2 (w) } l= S &, gb, ba, abaabb...} aabb ba S→e —0 S - asb - 2 S- bsa - 3 G= (V, T, r,s) 5- ash -2 V= 554 ex - absorb (s) 9 = Sa, Sy abgabb 3 s. P= SS=ashlosa E} S-ASb, -2 -, assb -3 a Stat symbol - absasb - 3 - abasb - 0 abaasbb - 3

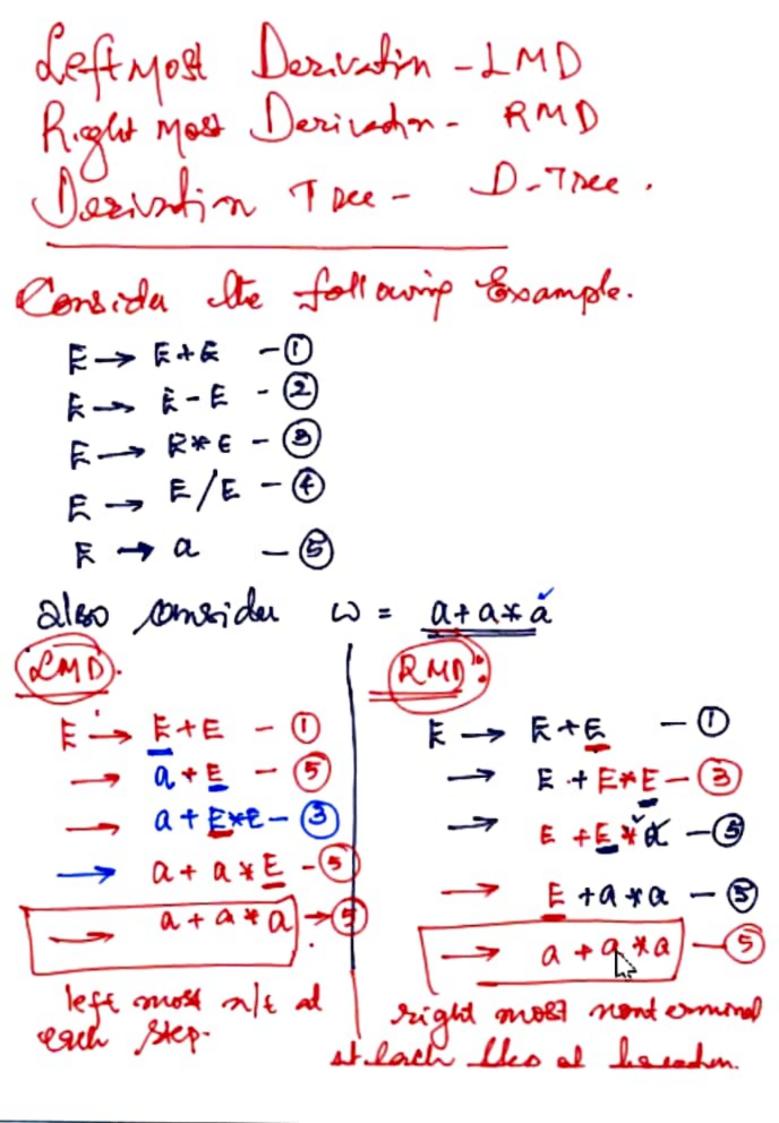


Def: 50.10.5090 Recep: How to work Grammar or How to generale the skage (Ranguage) from G. Q. what is the language generaled by he following grammar 6.

S -> OA & G G T= FO, SIL

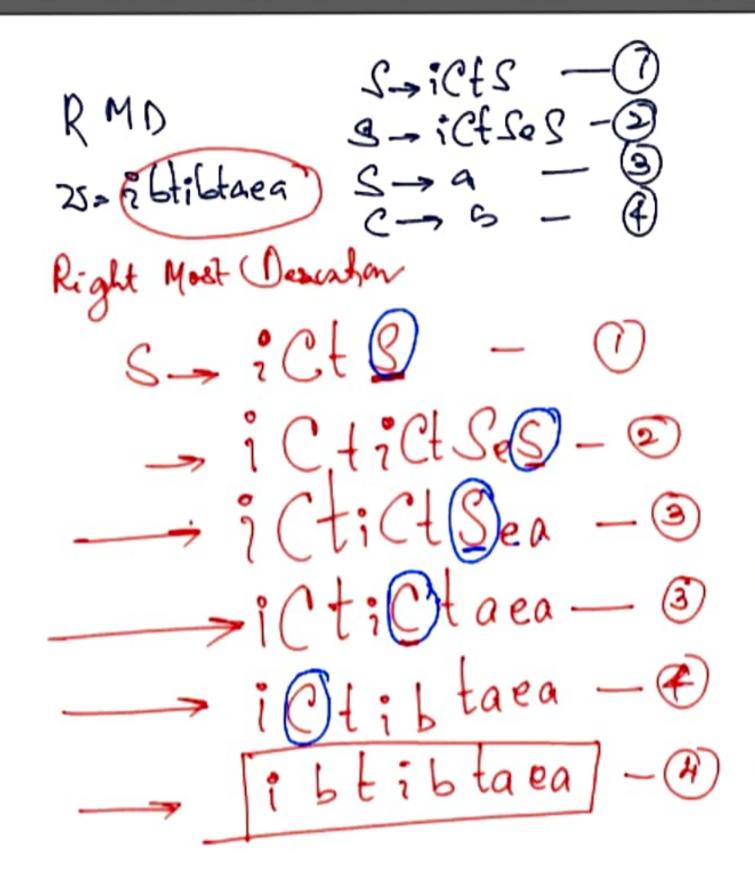
S. To Sleet & S. To S. To S. To S. To Sleet & S. To Sleet & S. To S. To S. To Sleet & Sleet & Sleet & S. To Sleet & Solution: To Send R(G), upply the desination process. $S \longrightarrow OA$ L-(6)- {(01) 1: 1170} <u>-- 918</u> - 010A 11=0 5->€ - 01015 n= 1 01 -- 010707 - 0101015 8-08 -015 -(01)/ (01)n





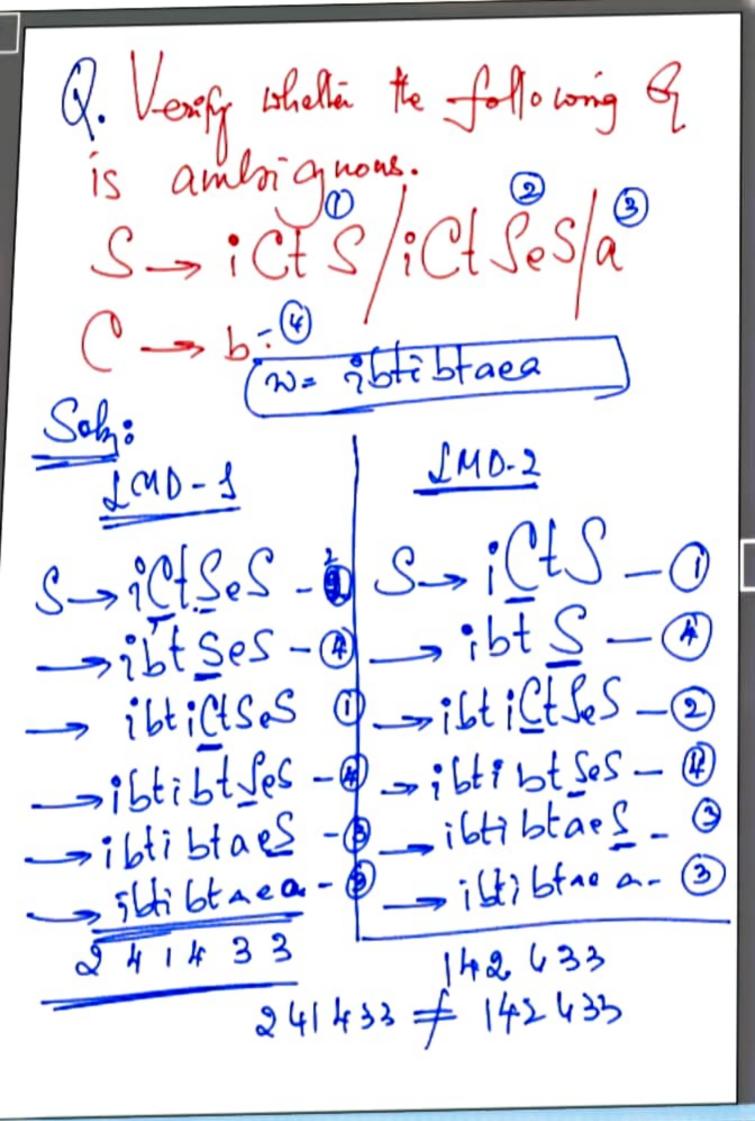
20 = a+axa

Description Tisee: D-free 206 Tree is a non-timear, data Structure which has special mode alled soot and thildren node: Every tree is a graph A tree is an acyclic digraph" directed grout downwards cont asse Digum The process of downshim (eith Lus or RMB) com be kepressed in the from of tree which is Golfer I tree



Q. Consider the following grammer. S->S+S -(1) S - 2 x2 - 2 2 so sonsider 25 = a+a*a It is possable to desire the placery w from two different LMDs. EUD 7 IMO2 S→ <u>S</u>*S → S→S+S - 3 -> S+S+5 - (I) - a+s - 3 _ a + S + s - 2 ___ a+a*g--® -> a+a+s - 3 -- a+a x a) - (a+ a* a) -3 Same string w= a+axa Two desitations are

Desiration trees Pap-1, 1323 For the some skup is under the same method[IMD], hence the G is an ambriguou grammar



To White two difficult Strup & slamp = w = 7 Giltara Method is some = 2 MD Two different desications (d- breed) - Have the G'& sombianus

Cossider S-> asss saste LMD-1 LMD-2 S-bSas - 65as -> bas -> basbsas -(1) -> babsas - 2 -- babsas babas -> babas. -> baba 3 -> balba 2,3,3,33 2,1,3,3,3. D4 -2 D+ - 7