

Consider W > ab then wR = ba L= WWR => abba.

Puch Down Antoniata Tuples.

$$2(A,a,azo)=(A,A)$$
= y abba.

 $2(A,b,bzo)=(b,B)$

$$2(B,b) = (b(c)$$

$$2(B,b) = (a,D)$$
 $2(C,a) = (a,D)$

Transition Table.

States	Input	0/t she	ransision.
501	a, azo	a,B	
Α		b, В	
A	b, b Z0	b,C	1 Solo
В	b	a,D	F-TE
C	a		\$7[4.8.c.0E]
			S.A) - (IRABA) - (A)
(c, c)=(c, g	R (9) (8	2(B, b, to a) & Co, to a) & Co, to a	(A, A) = (A, A) &

Design PDA for Tue language L= { a b c (May 2019 - 5 marks) So n => 1 or more than I then I am taking n value is 1. L= { a2(1) b c4 then a 2 b c 4 aabcccc is the string. aabcccc 0,020 A JA AB DICCIC CIC CID CIE Transition square guerre. D. d Tuples 90 - A FTE Q -{A,B,C,DE} 2 - a,b, c 2 -1 2(A,a,azo) = (A,a) 2(B,b,bzo) (b) 2(c,c)=(c,c) 2(C, c, czo) = (C,C) 2(C,C) = (D,C) 2(A,a) = (B,a)

QC D,c) = (E,c)

State	Inputiones	Oft AA	Transition
A	a,azo	Aja	Ab -A
A	a	Ba	1
В	b,bzo	С, ь	AAA-A
C	C, Czo	c,c	AAgra
C	C, C >0	c,c	2
С	c .	PIC	1 dra
D	C	PC	of phaneta

Equivalence of CFL and

Step1: convert into GNF.

Step 2: Identify the Form, AyaB

A - productions

a - Input Symbor (08) Terminal

By out states.

Construct Ex: SHAAla

AMSALD

PDA for the Following grammae

R16

Step 1:

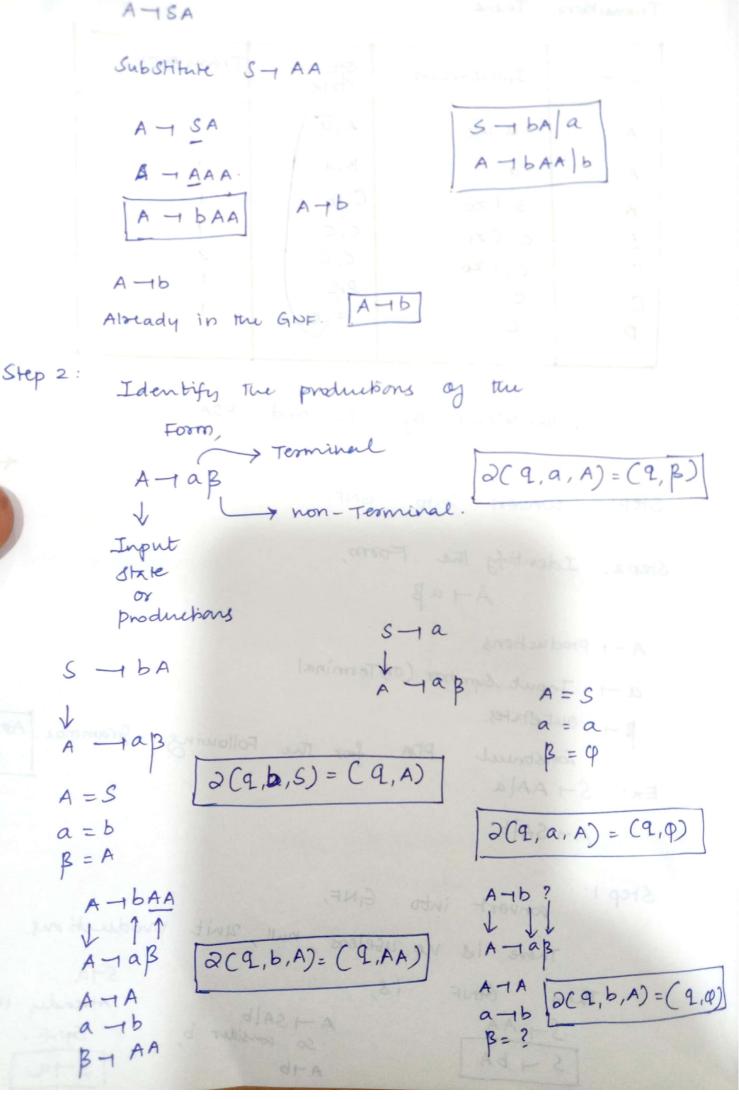
convert into GNF,

productions. There is no yseless, hull, 21 nit

Then GINF is,

ATB

Alocady in The GINF .



PDA is from the CFG,

M= Q -1 S,A

$$\leq$$
 -1 a,b

 \leq -1 a,b

 \leq -1 A

 \Rightarrow (2,b,s) = (2,A)

 \Rightarrow (2,b,A) = (2,AA)

 \Rightarrow (2,b,A) = (2,AA)