Question 1:

a) L1 = { a b | n > 1 }

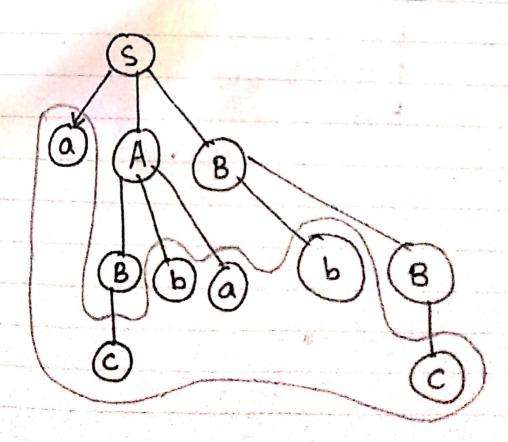
S -> a Sb | ab

b) 12 = { a"b"a" | n > 1 }

A -> aAc |bA | A

Q2

w = acb abc



Ouestion 03

L= { a"b" | n > 1 }

Question no y

aB (Right Most)

aaBaBBB

aaBaBbB

aaBaBbbA

aaBaBbbA

aaBaBbba

aaBabbba

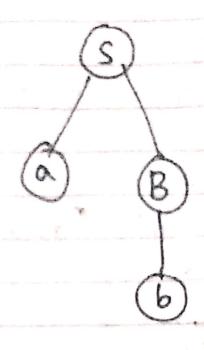
aaaBBabbba

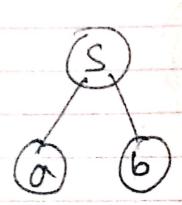
left (Most)

aaabbabba aaabbabb aaabbabb aaabbabbs aaabbabbba aaabbabbba

.aabababb abab Question # 05 we have to generate String "abab" Two different structure trees so the grammer is Ambigous. and and and

Question # 06





Two different structure tree on the same string ab so the grammer is ambigous.

SAASA JaB AABJS BABJC

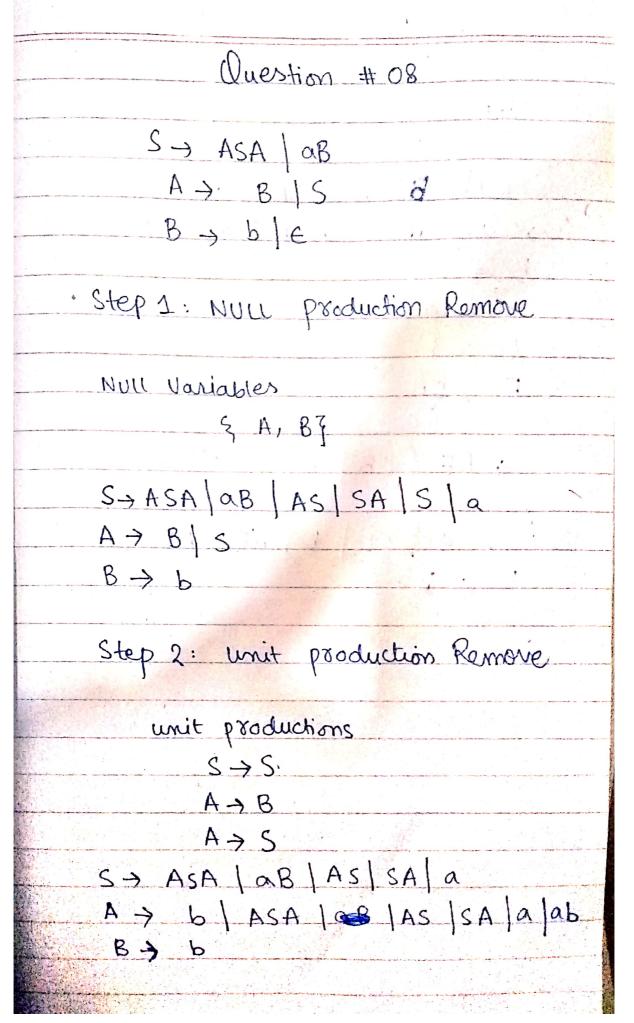
Question # 07

 $S \rightarrow aAbB$ $A \rightarrow aA \mid a$ $B \rightarrow bB \mid b$

Convert into CNF

 $S \rightarrow AAbB$ $A \rightarrow AA \mid A$ $B \rightarrow bB \mid b$ $C \rightarrow B$ $C \rightarrow B$ $E \rightarrow BB$ $F \rightarrow AE$

S -> CF A -> CA | a B -> DB | b



Step 3:

E -> SA

S -> AE | CB | AS | SA | Q A -> a | CD | b | AE | AS | SA B -> b

du