1) 10 13

$ ARBA A => annan B => bobl belbe

s*te*p 2: There is an unit production, so zemove it -

*5* => AR@l@

5 → AB | BBB bebanalanla S ABI BB BlbBl.blanalaala

A -> aanlaala B OBBI belb

S*te*p 3:

Convest vasiable combination into chomsky pomal fom

S=> AB | b8R|b8|blandland

s b BB $ -> BBB

[B->]

CBE S-CB

S > B 15 -> BB

AR Sale

S DAR $ AAA

DAR ISDA

5-70A TARI

S

AB/CB/BB bIDAL AAld

A

DAR

A

DAL

A->a AAA

A DA Anla

B -> beelbelb

BbBB

B → BBB B>[B]

BhB

В ВВ

B

OB/BBI b

Required. INF

$ -> AB ICBBB) BIDABela A — DATARIO B -> CB|BBL G -> BB DAA

SHARTE w 1/1013

5 - ABAC

A → aale B BBLE

step 1

There is an unit psoduction-sexemove it

AE

B DE S ABAC/BAC/AAC/ABC / AC AC/ BC ©

A anla BbBlb cd There is an unit production so se move it - S-> ABAC) BACHA ACABcl acBcd

A dala в БB Tь od

sted

step 3 - Convent variable combination into ch*om*sky normal fom

S-> ABAC BACI AACABCAC Buld

SABAC

s → ABS

D-AB

Tsos|

S -> BAC Is BSI

$ → AAC ( SAS)

SHAKTI Bart 1 10 13

130

s ABC

5 -> AS 5-DS BST ASIASTAc Bold

s->|BS|AS|AC|Bold

A -> an

А - А TA SAA

BbBlb

B BB

Requis*ed NF*L

[ BBB! S → DSBS ASJACBcd A Aala B BBlb

D AB