Page No.: Convert the CFG to CNF S -> aAbB A -> aA a B-> 6B/6 1) It is already simplified Production solution solution B-> b bearing of the B-> bearing 28 B-7 CB (->b  $B \longrightarrow bB$   $A \longrightarrow a$ A-> a) . (-1A  $A \longrightarrow aA$  $A \rightarrow C_2 A$ ,  $C_2 \rightarrow a$ S-) aAbB 5-7 C2A C1B 5-> C2AC3 (3-> C1B  $G' = \{V', P', T', S'\}$   $T' = \{A, B, S', C_1, C_2, C_3, C_4\}$ A -> a | C2 A B -> 6 (1B) C1 -7 b  $\frac{C_2}{C_3} \rightarrow \frac{1}{2}$ C4 -> AC3 where G=G

Page No. s->aA bB Bala already simplified grammer we have production solution  $B \rightarrow Ba$ B-7 a 1 C, →a
B→BC, (1-7 a) 13 -> BC1 A->6 A-> 6 1805-1 ATAb C2-75 C2 7 b A->AC2 A-7AC2 S->aAbB S->CLAC2B S-) CIAC3 C3->C2 B C3-> C2B C4->A(3) C4 -> AC3 5-> C, C4 5-> 9 64 5' -7 4, 64  $A \rightarrow AC \mid b$   $B \rightarrow BC \mid a$  $C_1 \rightarrow a$ () -> b C3-7C2B C4 ->AC3







