Chomsky Normal Form

EX1:

 $S \rightarrow ASB$

 $A \rightarrow aASA|a| \in$

 $B \rightarrow SbS|A|bb$

EX2:

 $S \rightarrow a \mid aA \mid B$

 $A \rightarrow aBB \mid \epsilon$

 $B \to Aa \mid b$

EX3:

 $S\rightarrow ASA|aB$

 $A \rightarrow B|S$

 $B\rightarrow b|\epsilon$

EX4:

 $S \rightarrow aAD$

 $A \rightarrow aB / bAB$

 $B \rightarrow b$

 $D \to d\,$

EX5:

 $S \rightarrow 1A / 0B$

 $A \rightarrow 1AA / 0S / 0$

 $B \rightarrow 0BB / 1S / 1$

EX6:

 $S \rightarrow ASA \mid aB$,

 $A \rightarrow B|S$

 $B\to b|E$

EX7:

 $S \rightarrow a B B B | b A A A$

 $A \rightarrow a \mid A \mid b \mid B \mid B$

B -> b| b S |A a a

EX8:

 $S \rightarrow a B B B | b A A A$