

Quiz-04-TOC	Section: 66-I
Name:	ID:

Convert this grammar into **Chomsky Normal Form (CNF)**.

$S \rightarrow AB \mid BC \mid aA$

$A \rightarrow BA \mid a \mid \epsilon$

$B \rightarrow bB \mid C$

$C \rightarrow AB \mid b$

Your answer must clearly show the following steps:

1. Remove all ϵ -productions
 2. Remove all unit productions
 3. Remove all useless / non-generating symbols
 4. Convert the simplified grammar to proper CNF rules
 5. Write the final CNF grammar clearly
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