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

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

$S \rightarrow AB \mid BC \mid aA$
$A \rightarrow BA \mid a \mid \varepsilon$
$B \rightarrow bB \mid C$
$C \rightarrow AB \mid b$

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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