**Theory of Programming Languages – CS 507 – Quiz 4** 

**Roll Number:** 

Name:

1. [10<sup>°</sup>

 $Convert\ the\ following\ CFG\ into\ an\ equivalent\ CFG\ in\ Chomsky\ normal\ form.\ Show\ all\ intermediate\ steps$ 

$$S \rightarrow BSB \mid B \mid \epsilon$$

$$B \rightarrow 00 \mid \epsilon$$