1085-33-85   **Mourad E. H. Ismail*** (`mourad.eh.ismail@gmail.com`), Department of Mathematics, University of Central Florida, Orlando, FL 32816, and **Mizan Rahman** (`mrahman109@hotmail.com`), Department of mathematics, Carleton University, Ottawa, Ontario K1S5B6, Canada. *Asymptotics of the Landau Constants and Their q-analogue.*

We derive inequalities and a complete asymptotic expansion for the Landau constants as n tends to infinity using the asymptotic sequence n!/(n+k)!. We also introduce a q-analogue of the Landau constants and calculate their large degree asymptotics. In the process we also establish q-analogues of identities due to Ramanujan and Bailey. (Received September 01, 2012)