Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ABE 30800 – Spring 2018

No- GRADED Quiz 1 – April 5, 2018

1. Did you understand how to estimate molar/mass flow/flux of a component under steady state and in a multilayer system? Write some visible differences with the approach used to estimate heat flow to find out the resistances to heat flow, and now mass/molar flow. Write if the topic was not clear for you
2. Did you understand the phenomenon of diffusion with chemical reactions? Could you physically see how diffusion could affect the reaction rate of a given reaction? Could you foresee the effect of diffusion when a reaction is happening in a very concentrated system, that is, a system with a small diffusion coefficient? Write what you found not clear in the lecture

1. What differences and similarity di you find between the lumped parameter analysis applied to the heat transfer phenomenon and the one covered today on the mass transfer phenomenon, Write what not clear