

# A First Course on Kinetics and Reaction Engineering

## Unit 1 Additional Quiz Questions

1. A chemostat is a device used to control the rate of a reaction much as a thermostat is used to control temperature.
  - a. True
  - b. False
2. Cell growth “reactions” do not have an exact stoichiometry, but you can sometimes pretend that they do.
  - a. True
  - b. False
3. Match the concept with the field:

a. Thermodynamics	i. Rate of Reaction
b. Kinetics	ii. Design Equations
c. Reaction Engineering	iii. Heat of Reaction
4. When there are multiple reactions, the extent of reaction is equal to the number of moles of one product divided by the number of moles of another product.
  - a. True
  - b. False
5. Which of the following are headings for columns in a mole table.
  - a. Species,  $i$
  - b. Reaction,  $j$
  - c. Independent Reaction,  $j$
  - d. Initial Moles
  - e. Moles after Reaction