

## A First Course on Kinetics and Reaction Engineering

### Unit 10 Additional Quiz Questions

1. Langmuir-Hinshelwood kinetics for heterogeneous catalytic reactions are analogous to \_\_\_\_\_ kinetics for enzymatic reactions
  - a. Bodenstein
  - b. Monod
  - c. Michaelis-Menten
  - d. Watson-Crick
  - e. uninhibited
2. Which of the following is NOT a general term in the Hougen-Watson kinetic models for heterogeneous catalytic reactions
  - a. kinetic term
  - b. irreversibility term
  - c. potential term
  - d. adsorption term
3. True or false, in the derivation of Langmuir-Hinshelwood kinetics it is generally assumed that the surface is energetically uniform.
4. True or false, in the derivation of Langmuir-Hinshelwood kinetics it is assumed that there are attractive and repulsive interactions between adsorbed species.