

## Unit 12. Pre-Class Quiz Questions

1. True or false? It is not possible to have both internal and external transport limitations.
2. True or false? Strong external concentration gradients typically result in a very large apparent activation energy.
3. True or false? There are two ways to test for transport limitations: experimentally and computationally.
4. True or false? The conversion in a PFR should not change as the residence time changes.
5. Changing the size of catalyst particles also changes
  - a. the effective diffusivity
  - b. the pore tortuosity
  - c. the diffusion path length
  - d. the external mass transfer coefficient
  - e. the activation energy