

Chemical Reaction Engineering Quiz Questions and Answers Pdf

- Which of the following is not endothermic in nature?
 - Combustion of sulphur
 - Gasification of carbon
 - Thermal cracking of fuel oil
 - Steam reforming of naphthaAns: A
- Variables affecting the rate of homogenous reactors are
 - Pressure and temperature only
 - Temperature and composition only
 - Pressure and composition only
 - Pressure, temperature and compositionAns: D
- Reactions with high activation energy are
 - Very temperature sensitive
 - Temperature insensitive
 - Always irreversible
 - Always reversibleAns: A
- Which of the following is the most suitable for very high pressure gas phase reaction?
 - Batch reactor
 - Tubular flow reactor
 - Stirred tank reactor
 - Fluidised bed reactorAns: B
- An autothermal reactor is
 - Most suitable for a second order reaction
 - Most suitable for a reversible reaction
 - Completely self supporting in its thermal energy requirements
 - Isothermal in natureAns: C
- Study of chemical kinetics is the easiest in the case of ____ reactions.
 - Irreversible
 - Reversible
 - Surface
 - IdeAns: A
- The rate constant of a chemical reaction decreased by decreasing the
 - Pressure
 - Concentration of reactants
 - Temperature
 - Duration of reactionAns: C
- The enzyme which can catalyse the conversion of glucose to ethyl alcohol is
 - Invertase
 - Maltase
 - Diastase

d. Zymase

Ans: D

9. Arrhenius equation represents graphically the variation between the ___ and temperature.

a. Rate of reaction

b. Frequency factor

c. Rate constant

d. Activation energy

Ans: C

10. The energy balance equation over a tubular reactor under transient conditions is

a. An ordinary non linear differential equation

b. An algebraic differential equation

c. A linear partial differential equation

d. A non linear partial differential equation

Ans: C

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