Chemical Engineering Stoichiometry Questions & Answers Pdf

1. A liquid is in equilibrium with its vapor at its boiling point. On an average, the molecules in the liquid and gaseous phases have equal
   a. kinetic energy
   b. intermolecular forces of attraction
   c. potential energy
   d. total energy
      As: A

2. In case of a solution (not of a solid in a liquid), whose total volume is more than the sum of volume of its components in their pure states, solubility is
   a. independent of the temperature
   b. increased with the increase in pressure
   c. decreased with the increase in pressure
   d. unchanged by the pressure change

Ans: C

3. ___ equation gives the effect of temperature on heat of reaction.
   a. Kirchoff's
   b. Maxwell's
   c. Antoine
   d. Kistiakowsky
      Ams: A

4. For estimation of heat capacity of a solid compound, one can use
   a. clapeyron's equation
   b. gibb's equation
   c. kopp's rule
   d. triuton's rule
      As: C

5. An ideal gas can be liquefied, because
   a. its molecular size is very small
   b. its critical temperature is more than 0°C
   c. forces operative between its molecules are negligible
   d. it gets solidified directly without becoming liquid
      As: C