

10. In respect of the equation  $k = Ae^{-E_a/RT}$  in chemical kinetics, which one of the following statements is correct? (2003)

- 1) A is adsorption factor
- 2)  $E_a$  is energy of activation
- 3) R is Rydberg's constant
- 4) k is equilibrium constant

**Ans.** (2) A is pre exponential factor,  $E_a$  is activation energy, R is gas constant and K is rate constant.