



## AUGUST - 2006

2. (a) What is rate of reaction? Name the types with examples and derive equation for first order reaction.

(b) Explain Hess's Law of constant heat of summation.

II. Short notes : (3 × 5 = 15)

Write any THREE questions.

1. Explain Nernst's Distribution Law and the effect of dissociation and association of a molecule on partition co-efficient.

2. Define adsorption and Chemisorption. Explain the factors affecting adsorption.

3. Write notes on activation energy.

4. Write notes on Joule-Thomson effect.

5. What do you mean by internal energy and enthalpy of a system. Derive the relation between  $\Delta H$  and  $\Delta E$ .