

➔ Activation energy of a chemical reaction can be determined by [CBSE PMT 1998; AFMC 1999; BHU 2000]

- A) Changing concentration of reactants
- B) Evaluating rate constant at standard temperature
- C) Evaluating rate constants at two different temperatures
- D) Evaluating velocities of reaction at two different temperatures

Correct Answer: C

Solution :

$$\log \frac{K_2}{K_1} = \frac{E_a}{2.303R} \left[\frac{T_2 - T_1}{T_1 T_2} \right]$$