

Question 4. Which of the following statements are in accordance with the Arrhenius equation?

- (a) The rate of a reaction increases with increase in temperature.**
- (b) The rate of reaction increases with decrease in activation energy.**
- (c) The rate constant decreases exponentially with increase in temperature.**
- (d) The rate of reaction decreases with decrease in activation energy.**

Solution: (a, b) The rate of reaction increases with temperature. It becomes double with every 10° change. It increases with decrease in activation energy.