

## Concepts and formulas

- 1- Chemical Kinetics helps in determining the rate of a chemical reaction and mechanisms at molecular level.
- 2- Factors such as concentration, temperature, catalyst effects the rate of a chemical reaction.
- 3- Rate constant of a chemical reaction is independent of concentration of reactants and products.
- 4- Incomplete combustion of hydrocarbons leads to formation of CO, NO<sub>x</sub>, CO<sub>2</sub>, H<sub>2</sub>O and unburnt hydrocarbon.
- 5- Rhodium is a catalyst that reduces NO<sub>x</sub> into N<sub>2</sub> and O<sub>2</sub>.