Morning Assignment 01 jun 2026
Chemical Kinetics Module-kin.01

Fill in

1.3. Chemical kinetics studies reaction _____ and mechanism.
2.4. Feasibility of a reaction is predicted by _____.
3.5. A reaction is spontaneous when ΔG is _____ than zero.
4.6. The extent of reaction is determined by _____.
5.7. The speed of a chemical reaction is studied in _____.
6.9. Thermodynamics predicts the _____ of a reaction.
7.11. Reaction rate means the _____ of a chemical reaction.
8.12. Reaction rate is affected by concentration, temperature, and _____.
9.15. Pressure mainly affects _____ reactions.
10.17. Collision theory states that reactions occur through collisions of _____.
11.18. Effective collisions require sufficient energy and proper _____.
12.19. Instantaneous rate is measured at a particular _____.

Short QAs

13. 1. What is chemical kinetics?
14. 3. What is meant by rate of reaction?
15.4. Name any two factors affecting reaction rate.
16.6. What is the role of a catalyst in a reaction?
17.7. What is collision theory?
18. 9. Differentiate between thermodynamics and chemical kinetics.
19.10. Why does diamond convert into graphite very slowly?

MCQs

20. 5. A reaction is feasible when:
A) $\Delta G > 0$ B) $\Delta G = 0$ C) $\Delta G < 0$ D) $\Delta G = 1$

21. 12. Which affects reaction rate?
A) Concentration B) Temperature C) Catalyst D) All of these

22. 19. At molecular level, kinetics studies:
A) Crystal defects B) Orientation of molecules C) Magnetic moment D) Atomic number

23. 20. Collision theory states reactions occur through:
A) Heating only B) Collisions of molecules C) Electrolysis only D) Diffusion only

24. 21. Effective collision requires:
A) Proper orientation B) Sufficient energy C) Both A and B D) Low temperature

Help →Chemical Kinetics