

# Question Bank

## Chapter 1: Controlled and Sustained Drug Delivery System

1.	What criteria are necessary for selection of a drug as candidate for formulations of controlled release form? Explain giving optimum ranges for the Bio-pharmaceutics and pharmacokinetics parameters of the drug.
2.	What is the major objective of controlled drug delivery system? Give advantages and disadvantages of such a system.
3.	Explain loading dose and maintenance dose used in controlled release formulation.
4.	Explain in detail: Ideal requirements for sustained release formulations.
5.	Discuss formulation of diffusion layer controlled drug delivery systems.
6.	Enumerate the factors affecting the designing of oral sustained release drug delivery systems and explain any one in detail.
7.	Discuss the erosion controlled Drug Delivery System.
8.	Give note on reservoir type oral Controlled Drug Delivery System.
9.	Describe in detail physicochemical factors affecting design of oral sustained release dosage forms.
10.	Enlist the factor affecting on design of oral sustained release systems and explain it.
11.	Write a note on bioerodible and combination of diffusion and dissolution systems.
12.	Explain lag time, burst effect and reservoir systems with respect to control release formulations.
13.	Write in brief the drug release patterns of controlled release dosage forms.
14.	Give the difference between conventional and controlled release system. Describe the evaluation of oral controlled drug delivery system.