

# QUESTION BANK :

## 2-Mark Questions (Short Answer)

- Define microencapsulation.
- List two advantages of microencapsulation.
- Differentiate between microspheres and microcapsules.
- Mention two applications of microencapsulation in pharmacy.
- What is mucoadhesion?
- State two advantages of buccal drug delivery systems.
- Define implantable drug delivery system.
- Give two examples of drugs delivered by implants.
- What is an osmotic pump?
- List two disadvantages of implantable drug delivery systems.

## 5-Mark Questions (Short Notes/Brief Answers)

- Explain the methods of microencapsulation.
- Write a note on the advantages and disadvantages of microencapsulation.
- Describe the differences between microspheres, microcapsules, and microparticles.
- Discuss the principles of bio adhesion/mucoadhesion in mucosal drug delivery.
- Explain transmucosal permeability and factors affecting it.
- Write short notes on formulation considerations for buccal drug delivery systems.
- Discuss the concept and types of drug implants.
- Write a note on the working and advantages of osmotic pumps.
- List the applications of microencapsulation in pharmaceuticals.
- Explain the disadvantages of mucosal drug delivery systems.

## 10-Mark Questions (Essay/Elaborate Answers)

- Describe in detail the methods of microencapsulation and their pharmaceutical applications.
- Discuss the principles, advantages, disadvantages, and formulation considerations of buccal drug delivery systems.
- Explain the concept of implantable drug delivery systems, their advantages, disadvantages, and the mechanism of osmotic pumps.
- Elaborate on the differences between microspheres, microcapsules, and microparticles, with examples and applications.
- Write an essay on the principles of mucoadhesion and its application in drug delivery, with suitable examples.