



**Molecular Pharmaceutics (Nano Tech and Targeted DDS) -II**

**Q.P. CODE: 5169**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY (Answer any Three)**

**3 X 10 = 30 Marks**

1. Define Aerosols. Give a detailed account on propellants, containers and valve components employed for aerosol formulation.
2. Define targeted drug delivery system. What are the different approaches of tumour targeting?
3. Discuss the different methods of preparation and applications of nanoparticles.
4. Describe intra nasal routes of drug delivery systems.

**SHORT ESSAY (Answer any Nine)**

**9 X 5 = 45 Marks**

5. What are vesicular drug delivery systems? Classify and explain the structural arrangement of each type.
6. What are monoclonal antibodies? Give their applications along with the examples.
7. Describe tablets and boluses as veterinary DDS.
8. Explain the formulation and evaluation of microspheres.
9. Differentiate Liposomes and Niosomes. Give the applications of Niosomes.
10. Describe the preparation of Aquasomes.
11. Describe the cellular uptake process in targeted drug delivery.
12. Explain the evaluation of polymeric nanoparticles.
13. Describe the thin film hydration technique of preparation of liposomes.
14. Write a note on active drug targeting.

\* \* \* \* \*