



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

**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. Explain the filling and evaluation of Aerosols.
2. Different approaches for tumor targeting.
3. Write in detail different methods for preparation of microspheres.
4. Explain the preparation of any two intra nasal DDS with its evaluation.

**SHORT ESSAY (Answer any Nine)**

**9 X 5 = 45 Marks**

5. Factors of affecting intra nasal drug absorption.
6. Applications of monoclonal antibodies.
7. Applications of niosomes.
8. Evaluation of phytosomes.
9. Propellents used in aerosols.
10. Differentiate microspheres with microcapsules. Explain any one method used for preparation of microcapsules.
11. Explain any two methods for preparation of liposomes.
12. Note on Drenchres and tubing products.
13. Explain the preparation of aquasomes.
14. Explain the different approaches for disruption of BBB transport.

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