

**FACULTY OF PHARMACY**

**M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Main) Examination,  
August 2019**

**Subject : Molecular Pharmaceutics (Nano Tech. and Targeted DDS)**

**Time: 3 Hrs**

**Max. Marks: 75**

**Note:** Answer any Five Questions. All Questions Carry Equal Marks.

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|---|----|
| 1. (a) Discuss abt the varis approaches for drug delivery to brain.   | 10 |
| (b) Explain the concepts behind targeted drug delivery system.  | 5  |
| 2. Explain the methods of preparation and evaluation of liposomes   | 15 |
| 3. (a) Explain the methods of preparation and evaluation of electrosomes.   | 8  |
| (b) Explain the methods of preparation of aquasomes, and their applications.  | 7  |
| 4. (a) Write abt method of preparation of pharmaceutical aerosols.  | 8  |
| (b) Explain the factors influencing intranasal drug delivery system.  | 7  |
| 5. (a) Explain abt therapeutic antisense molecules  | 10 |
| (b) Write abt metered dose inhaler  | 5  |
| 6. (a) Write a short note on monoclonal antibodies  | 8  |
| (b) Give a brief accnt of exvivo gene therapy   | 7  |
| 7. (a) Explain detail abt targeting of drugs to tumor cells   | 8  |
| (b) Give a brief accnt on aptamers  | 7  |
| 8. Give an accnt of the methods for the preparation of nanopart icles. Add a note on the evaluation of nanoparticles. | 15 |

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