

Code No. 1209/PCI

FACULTY OF PHARMACY**M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Main) Examination, August 2018****Subject: Molecular Pharmaceutics
(Nano Technology and Targeted Drug Delivery Systems)****Time: 3 Hrs****Max. Marks: 75****Note: Answer any five questions. All questions carry equal marks.**

- 1 a) Explain the concepts, events and biological processes involved in drug targeting. (8)
b) Explain in detail abt targeting of drugs to tumor cells. (7)
2. Explain the methods of preparation and evaluation of nanoparticles. (15)
- 3 a) Explain the methods of preparation and evaluation of microspheres. (10)
b) Explain the methods of preparation of aquasomes. (5)
- 4 a) Write abt containers, propellants and evaluation tests for pharmaceutical aerosols. (10)
b) Explain abt intranasal drug delivery system. (5)
- 5 a) Explain abt bone marrow transplantation in exvivo gene therapy. (10)
b) Give a brief note on invivo gene therapy (5)
- 6 a) Discuss in detail gene expression systems (both viral and nonviral gene transfer). (10)
b) Give an acct of liposomal gene delivery system. (5)
7. Give a brief acct of i) aptamers; ii) Therapeutic antisense molecules. (8+7)
8. Explain the methods of preparation and evaluation of liposomes. (15)
