

Time: 3 Hrs

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Max. Marks: 75

FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Suppl.) Examination, February 2019

Subject: Molecular Pharmaceutics (Nano Technology and Targeted Drug Delivery Systems)

	Note: Answer any five questions. All questions carry equal marks.	
1.	a. What are the ideal properties of a carrier?b. Explain different types of drug targeting with examples?	(5) (10)
2.	a. What are the limitations of drug targeting to tumr? Explain EPR targetin g?b. What are the active targeting methods to target tumr?	(7) (8)
3.	a. Explain blood brain barrier? What the factors affecting drug transport across the BBB?b. Explain varis non -invasive targeting methods to brain?	(6) (9)
4.	 a. Describe in detail varis methods of preparation of microspheres? b. Explain the drug release mechanism from microspheres? 	(10) (5)
5.	a. Explain in detail nasal drug delivery system?b. Write a note on preparation of Monoclonal antibodies?	(10) (5)
6.	a. What are aerosols? Explain varis propellants used in the manufacturing of Aerosols.b. Explain different methods to characterize aerosols?	(7) (8)
7.	a. Define gene therapy? Explain few diseases targeted for treatment using gene drug delivery system.b. Explain aptamers role in targeted cancer therapy?	(9) (6)
8.	Write a note on followinga. Stealth liposomesb. Phytosomesc. Aquasomes	(15)
