

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.	<ul><li>a. What are the ideal properties of a carrier?</li><li>b. Explain different types of drug targeting with examples?</li></ul>	(5) (10)
2.	<ul><li>a. What are the limitations of drug targeting to tumr? Explain EPR targetin g?</li><li>b. What are the active targeting methods to target tumr?</li></ul>	(7) (8)
3.	<ul><li>a. Explain blood brain barrier? What the factors affecting drug transport across the BBB?</li><li>b. Explain varis non -invasive targeting methods to brain?</li></ul>	(6) (9)
4.	<ul> <li>a. Describe in detail varis methods of preparation of microspheres?</li> <li>b. Explain the drug release mechanism from microspheres?</li> </ul>	(10) (5)
5.	<ul><li>a. Explain in detail nasal drug delivery system?</li><li>b. Write a note on preparation of Monoclonal antibodies?</li></ul>	(10) (5)
6.	<ul><li>a. What are aerosols? Explain varis propellants used in the manufacturing of Aerosols.</li><li>b. Explain different methods to characterize aerosols?</li></ul>	(7) (8)
7.	<ul><li>a. Define gene therapy? Explain few diseases targeted for treatment using gene drug delivery system.</li><li>b. Explain aptamers role in targeted cancer therapy?</li></ul>	(9) (6)
8.	<ul><li>Write a note on following</li><li>a. Stealth liposomes</li><li>b. Phytosomes</li><li>c. Aquasomes</li></ul>	(15)

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