

Time: 3 Hrs

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FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Suppl.) Examination, January 2020

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

Max. Marks: 75

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

1	(a) Define drug targeting? What are the ideal characteristics of a carrier?(b) Explain different types of drug targeting in detail?	6 9
2	Explain different types of tumr targeting methods in detail?	15
3	(a) Explain varis transport mechanisms across Blood brain barrier?(b) Describe in detail invasive and non-invasive brain targeting methods?	5 10
4	(a) Describe hybridoma technology of Mab preparation?(b) How will y characterize monoclonal antibodies?	8 7
5	(a) What are liposomes? Explain the role of cholesterol in the preparation of liposomes?(b) Explain any five (5) methods of preparation of liposomes? Add a note on fate of	5
	liposomes?	10
6	What are aquasomes? Describe in detail method of preparation and characterization of aquasomes?	15
7	(a) What are aerosols? Explain varis propellants used in the manufacturing of aerosols	7
	(b) Describe in detail evaluation methods of nasal drug delivery system?	8
8	(a) What are gene drug delivery systems? Explain in detail viral and non viral gene transfer methods?(b) Write a note on liposomal gene drug delivery system?	9 6
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