

Roll No ..

**MPY-203 (PCS)**  
**M.Pharmacy II Semester**  
 Examination, July 2015  
**Novel Drug Delivery System - II**  
**(Advanced Pharmaceutics - III)**  
*Time : Three Hours*

Maximum Marks: 70

- Note:* i) Attempt any five questions in all.  
 ii) Question No. 1 is compulsory.  
 iii) All questions carry equal marks.

1. Explain any five of the followings :

- Explain the structural aspects of Niosomes.
- Describe the characterizations and applications of resealed Erythrocytes.
- Describe a overview of molecular basis of targeted drug delivery.
- Discuss the compositions of multiple emulsions and its applications.
- Explain the methods of targeting of Pharmacosomes / Transfersomes.
- Define Nanoparticles and the method of its preparation.
- Describe the applications of magnetically modulated drug delivery.

2. Explain the preparation, characterization and stability aspects of Liposomes.

3. What are resealed erythrocytes? Explain preparation, characterization and its applications.

4. Describe the methods of preparation, methods of targeting and characterization of Solid Lipid Nanoparticles (SLNs).

5. Differentiate between multiple emulsions and submicron emulsions. Explain the mechanism of drug transport in submicron emulsions.

6. Define the terms Aquasomes, Pharmacosomes and Transfersomes. Discuss their compositions and applications.

7. Write notes on any two :

- Liquid Crystals
- Magnetically modulated Drug Delivery
- Dendrimers

8. a) Explain the methods of preparation and evaluation of multiple emulsions.

b) Describe the significance of drug protein binding.

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