

Printed Pages : 2



PHARMA485(6)

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 150863**

Roll No.

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**B.Pharm.**

(SEM VIII) THEORY EXAMINATION, 2014-15  
**NOVEL DRUG DELIVERY SYSTEMS**

Time : 3 Hours]

[Total Marks : 80

**Note :** Attempt all questions.**1 Attempt any two. 8×2**

- (a) What are controlled drug delivery systems? Give their limitations over conventional formulation.
- (b) Give various parameters for evaluation of CDDS.
- (c) Discuss the principle for formulation of oral controlled drug delivery system.

**2 Attempt any two. 8×2**

- (a) Define Prodrug. Give various approaches for its development.
- (b) Classify various carriers for drug development on the basis of physical nature.
- (c) Enlist various methods for microencapsulation. Discuss emulsion method.

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1

[ Contd...

- 3 Attempt **any two**. **8×2**
- (a) Discuss various parameters of Transdermal drug delivery system.
  - (b) What is Ionophoresis ? Discuss its role in drug delivery.
  - (c) Discuss Osmotic Pump as a drug delivery system.
- 4 (a) Write any two methods of preparation and drug loading of each: **(any two)** **4×2**
- (i) Liposomes.
  - (ii) Nanoparticles.
  - (iii) Resealed Erythrocytes.
- (b) Give the various level of drug targeting. Explain **8** with suitable examples.
- 5 Write detail note on: **(any Two)** **8×2**
- (a) Nasal drug delivery system.
  - (b) Ocular drug delivery system.
  - (c) Colonic drug delivery system.
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