

M. Pharm. First Semester (Pharmaceutics) (New)  
**35318 : Drug Delivery System : MPH 102 T**

P. Pages : 1  
Time : Three Hours



**AW - 2389**  
Max. Marks : 75

- Notes :
1. All question carry equal marks.
  2. Answer **any five** questions.
  3. Illustrate your answer necessary with the help of neat sketches.
  4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Describe in detail principles and fundamentals in rate controlled drug delivery system. Explain system feedback regulated drug delivery system. **15**
2. Describe various basic components of Transdermal drug delivery system. Explain various evaluations tests of TDDs. **15**
3. Give the significance Gastro-retentive drug delivery system. Discuss Modulation of GI transit time. **15**
4. Describe in detail mechanism of drug delivery system. What are the various biological factors influencing SR formulation. **15**
5. Discuss various protein and peptide drug delivery system. Explain barriers for protein & peptide drug delivery system. **15**
6. a) Define and classify polymers in CDDs. **7**  
b) Write a note on pH activated drug delivery system. **8**
7. Write a note on **any three**. **15**
  - a) Permeation enhancers.
  - b) Structure of skin
  - c) Vaccine delivery system.
  - d) Ocuserts.

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