



DK-M-2011118 Seat No. _____

M. Pharm. (Sem. II) (CBCS) Examination

April / May – 2015

**Novel Drug Delivery System Part - I
(Pharmaceutics)**

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer and tie both the sections separately.
 - (2) Figure to the right indicates marks.
 - (3) Answer any three (3) questions from each section.
 - (4) Que. One (1) and Que. Five (5) are compulsory.
 - (5) Draw neat and clean diagrams as required.

SECTION - I

1 Answer Any SEVEN out of given TEN questions : 7×2=14

- (a) What do you mean by controlled release drug delivery system (CDDS)?
- (b) Define ODT as per USFDA.
- (c) What is mucoadhesion?
- (d) What do you mean by floating lag time?
- (e) Enumerate the Criteria for selection of drug for colon targeted delivery.
- (f) What is Microemulsion?
- (g) What is Zydis Technology?
- (h) Give difference between primary and secondary packaging.
- (i) Give advantages of sublingual tablets?
- (j) Explain role of polymer in controlled drug delivery system.

2 Answer the following :

Write a short note on design and evaluation of controlled release drug delivery system (CDDS). **13**

- 3** Answer the following :
- (a) Explain factors affecting mucoadhesion. **7**
- (b) Write a short note on mouth dissolving tablets. **6**
- 4** Answer the following :
- (a) Discuss Mechanism of Mucoadhesion. **5**
- (b) Write a short note on Orosolve OR Durasolve technology. **5**
- (c) Discuss Evaluation test of fast dissolving tablets. **3**

SECTION – II

- 5** Answer Any TWO out of given THREE questions. **2×7=14**
- (a) Explain approaches for Gastro-retentive Drug Delivery System.
- (b) Write an evaluation parameter of floating drug delivery system.
- (c) Explain OraVescent Transmucosal Delivery Systems.
- 6** Answer the following .
- (a) Write a short note on nanosuspension OR microemulsion. **7**
- (b) Give advantages of floating dosage form. **6**
- 7** Answer the following :
- (a) Describe factors affecting Colon Targeted Drug Delivery. **7**
- (b) Write an evaluation parameter of colon targeted drug delivery system. **6**
- 8** Answer the following :
- (a) Discuss Formulation considerations for Ocular Drug Delivery Systems. **7**
- (b) Give Types of pharmaceutical packaging components. **6**