

Code: 13R00801

B.Pharm IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

NOVEL DRUG DELIVERY SYSTEMS

(For 2013, 2014 regular & 2014, 2015 lateral entry admitted batches only)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- Give any two rationale behind drug delivery system.
- Differentiate sustained and controlled release action of drug.
- Give two examples for Ion exchange resin.
- Mention the ingredients required for floating tablets.
- Mention any two nanoparticle formulation methods.
- Which type of drugs can be loaded in resealed erythrocytes?
- State any two physico-chemical requirements for a drug for transdermal drug delivery.
- Specify the important barriers involved in transdermal drug delivery.
- Write any two examples for mucoadhesive polymer.
- Mention the benefits of Buccal drug delivery system.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 Elaborate the concept involved in controlled release and sustained release dosage form.

OR

3 Explain the factors influencing the design of sustained release dosage form.

UNIT – II

4 Explain Noyes whitney equation. Mention the parameters which control dissolution rate.

OR

5 Describe the formulation and mechanism involved in osmotic drug delivery.

UNIT – III

6 Outline the preparation methods for liposomes.

OR

7 Discuss any four evaluation methods for nanoparticles.

UNIT – IV

8 Classify the types of transdermal drug delivery system. Mention any two formulation methods.

OR

9 Mention the factors affecting the permeation of drugs across skin.

UNIT – V

10 Enumerate the formulation parameters to be considered for nasal drug delivery system.

OR

11 Describe the mechanism involved in bio adhesion.
