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B.Pharm IV Year II Semester (R13) Regular Examinations April 2017

NOVEL DRUG DELIVERY SYSTEMS

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (a) What is the rationale of design of extended release formulation?
 - (b) List out factors to be considered in CR formulation.
 - (c) What is diffusion controlled drug delivery system?
 - (d) Define matrix tablet.
 - (e) What is nanosphere and nanocapsule?
 - (f) Write any four techniques for preparation of nanoparticles.
 - (g) Define transdermal drug delivery system.
 - (h) What are the advantages of TDDS?
 - (i) Give the applications of nasal drug delivery system.
 - (j) Write any three mechanisms involved in bio-adhesive drug delivery system.

PART - B

(Answer all five units, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

- Write ideal properties of drug for:
 - (a) SR formulation.
 - (b) Delayed release dosage form.

OF

- 3 Define the following terms:
- (a) Sustained release.
 - (b) Extended release.
 - (c) Timed release.
 - (d) Controlled release.
 - (e) Delayed release.

UNIT – II

4 Describe commonly used polymers with relevant properties, suitable for making CR formulation.

OR

5 What are the advantages and disadvantages of oral controlled drug delivery system?

UNIT – III

Write a note on evaluation test of nanoparticle.

OR

7 Define novel carriers. Explain about formulation of liposomes.

UNIT - IV

8 Write in detail about evaluation test for transdermal patches.

OR

9 Explain about permeation of drugs through skin layers

[UNIT - V]

10 Discuss the design and evaluation of nasal drug delivery system.

OR

Write in detail about mucoadhesive polymers and their properties.
