R13

Code: 13R00801

B.Pharm IV Year II Semester (R13) Advanced Supplementary Examinations July 2017
NOVEL DRUG DELIVERY SYSTEMS

Time: 3 hours   Max. Marks: 70

PART - A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a)   Write the concept of sustained release formulation.
   (b)   Write the difference between SR and CR formulation.
   (c)   Define ion exchange resin system with example.
   (d)   Define osmotic pump.
   (e)   What is resealed erythrocytes?
   (f)   Define niosomes.
   (g)   What is the use of permeation enhancer in TDD'S?
   (h)   What are the criteria for drug selection in TDD'S?
   (i)   Give an example for bioadhesive polymers.
   (j)   Write a merits and demerits of buccal drug delivery system.

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

UNIT - I

2   Discuss about timed release dosage form with suitable example.
OR
3   What are the factors influencing design of SR formulation?

UNIT - II

4   Write a detailed note on definition and types of gastro retentive drug delivery system.
OR
5   Describe about dissolution and diffusion controlled system.

UNIT - III

6   Define targeted drug delivery system? What are the different techniques to encapsulate drugs in liposomes?
OR
7   What are the evaluation tests for niosomes?

UNIT - IV

8   Describe about classification of TDD'S with neat diagram.
OR
9   Write about fundamentals consideration in the design of TDD'S.

UNIT - V

10   Give a example for mucoadhesive preparation. How do you evaluate the mucoadhesive products?
OR
11   Describe about different types of buccal tablet with neat diagram.

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