Roll No.: _____ Enrolment No._____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY AND RESEARCH

B.PHARM SEVENTH SEMESTER

FIRST- INTERNAL THEORY EXAMINATION: 2022-23

Subject Name: Novel Drug Delivery System
Subject Code: BP704T

Date: 21/07/2022
Time: 7:45 – 9:00 am
Total Marks: 30

Instructions:
1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.2 Long Answers: (Any One)

1) Classify GRDDS approaches. Write a note on floating system. **10**
2) Enlist and explain factors affecting designing of controlled release drug delivery system. **10**

Q.3 Short Answers: (Any Two)

1) What are advantages, disadvantages and ideal drug characteristics of ocular drug delivery system? **05**
2) Write a note on (i) Raft forming system (ii) Ocuserts **05**
3) Write a note on design of Dissolution controlled drug delivery system. **05**

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Q.1 Multiple Choice Questions:

(1) Rate determining step for Controlled release delivery system is..... **01**
(a)Absorption (b) Drug release from dosage form(c)Both (d)None

(2) Drugs are not suitable for CRDDS? **01**
(a) Narrow therapeutic window (b) Small dose (c) both (d) None

(3) Ocusert meant for **01**
(a)Eye (b)ear (c)skin (d)none

(4) The biological factors influencing the design and act of controlled release products is... **01**
(a) Partition coefficient (b) Absorption (c)Molecular size (d)Solubility

(5) Ion -activated DDS is which type of activated System? **01**
a) Chemical (b) Biochemical (c)physical (d)All of the above

(6) Following is Biochemical type of activated modulated system... **01**
(a) Enzyme activated DDS (b)Osmotic pressure activated
(c) Hydrolysis activated DDS (d) Vapor pressure activated

(7) pH of Stomach **01**
a)5-7 (b)7.5-8.5 (c)1-3.5 (d) 3.5-6

(8) Floating Drug Delivery Systems are hydrodynamically balanced systems that have a bulk density -------. **01**
(a)Same that of Gastric fluids (b)Lesser than that of Gastric Fluid
(c) More than that of Gastric Fluid (d) Same that of Gastric Acid

(9) Progestasert given by intrauterine route is a type of **01**
(a) Diffusion reservoir system (b) Diffusion matrix system
(c) Dissolution reservoir system (d) None of these

(10) Ion exchange type CDDS design, Drug is exchanged by **01**
(a) Cations (b) Anions (c) Counter ions (d) All of these