

C. U. SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Drug Delivery System

Subject Code: MPH102T

Branch: M. Pharm (Pharmaceutics)

Semester: 1

Date: 28/11/2018

Time: 02:30 To 05:30

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-I Answer followings (Answer all questions) (20)**
1. Discuss advantages and disadvantages of SR/CR. 02
 2. Classify polymers. 02
 3. What is Telepharmacy? 02
 4. Briefly explain Bioelectronic Medicines. 02
 5. What is personalized medicine? 02
 6. Briefly explain pharmacogenetics. 02
 7. Explain the rationale for GRDDS. 02
 8. Discuss the limitations of conventional ocular dosage forms. 02
 9. Explain the criteria for drug candidate to formulate as TDDS. 02
 10. Write a brief note on penetration enhancers. 02
- Q-II Long Answer (Answer any two) (20)**
1. Mention different approaches to get Gastroretention. Describe floating drug delivery approach in detail. 10
 2. Discuss the role of polymers in pharmaceutical drug delivery. 10
 3. Describe various types of Transdermal patches. 10
- Q-III Short Answer (Answer any seven) (35)**
1. Explain the Mechanism of Drug Delivery from SR/CR formulation. 5
 2. Enumerate different techniques of osmotic drug delivery system. Discuss formulation design of any one osmotic pump in detail. 5
 3. Discuss the factors affecting gastric retention time of the dosage form. 5



4. Discuss evaluation parameters for BDDS. 5
5. Discuss the concept of in-situ forming gels for ophthalmic drug delivery. 5
6. Write a note on soluble ophthalmic drug insert. 5
7. Explain the basic components of TDDS. 5
8. Write a note of PEGylation. 5
9. Write a note on mucosal delivery of vaccine. 5

