

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2021

Subject Name: Novel Drug Delivery System - Theory

Subject Code: BP704T

Branch: B.Pharm

Semester: 7

Date: 16/12/2021

Time: 11:00 To 02:00

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-1 Answer following: (Answer all questions) (20)**
1. What are the limitations of conventional drug delivery? 02
 2. Define Microcapsule and Microsphere. 02
 3. What are the potential drug candidates for CRDDS? 02
 4. Briefly explain the concept of Mucoadhesive drug delivery system. 02
 5. Which type of drugs are unsuitable for Gastro retentive drug delivery? 02
 6. Discuss basic principle of pulmonary drug delivery system. 02
 7. Briefly explain the routes of penetration for drug from TDDS. 02
 8. What are co-polymers? 02
 9. Give advantages of implantable drug delivery system. 02
 10. Give types of Intrauterine devices. 02
- Q-2 Explain any two of the following: (20)**
1. Discuss the Physicochemical and Biological properties of drug to be considered for design of CRDDS. 10
 2. Explain the basic components of TDDS. 10
 3. Classify various approaches for GRDDS. Explain Low density approach. 10
- Q-3 Write in short on any seven of the following: (35)**
1. Discuss the application of polymers in Drug Delivery System. 05
 2. Explain Diffusion controlled drug delivery system. 05
 3. Classify methods of microencapsulation. Explain any one in detail. 05
 4. Describe intra ocular barriers of the eye. 05
 5. Write a note on Permeation enhancers. 05
 6. Describe various evaluation parameters for GRDDS. 05
 7. Write a note on liposomes for Targeted drug delivery. 05
 8. Explain pressurized meter dose Inhalers (PMDIs). 05
 9. Write a note on copper bearing IUD. 05

