QP Code: 724006 **Reg. No……**

Seventh Semester B. Pharm Degree Supplementary Examinations
May 2024
Novel Drug Delivery Systems

(2017 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw diagrams wherever necessary***

Essays **(2x10=20)**

1. Define microencapsulation. Discuss the different methods of microencapsulation with a brief note on its advantages and disadvantages.
2. Explain the approaches to design gastro retentive drug delivery systems

Short Notes **(7x5=35)**

3. Briefly explain the application of polymers in formulation of controlled release drug delivery systems.
4. Discuss the approaches to monoclonal antibody therapy with examples.
5. What are the current concepts and approaches of nanoparticles for targeted drug delivery systems
6. Define the term controlled, sustained, extended and modified release. Explain the ideal characteristics of drugs candidate for controlled drug delivery.
7. Concept of osmotic pump as implants.
8. The important methods for liposome preparation.
9. What are the ideal characteristics of ocular drug delivery systems

Answer Briefly **(10x2=20)**

10. Principle of mucoadhesion.
11. What are ocuserts
12. Mechanism of drug absorption via ocular route.
13. Applications of Microencapsulation.
14. Classification of Polymers.
15. Advantages of controlled drug delivery systems.
16. What are Nebulizers
17. Factors affecting permeation.
18. Bio-responsive implants.
19. Principle of Ion exchange

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