Seventh Semester B. Pharm Degree Regular/Supplementary Examinations February 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. Write the applications of Transdermal Drug Delivery Systems (TDDS). Discuss on various approaches for design of Transdermal Drug Delivery Systems(TDDS) with suitable examples   (2+8)
2. Explain the concepts and various approaches for targeted drug delivery systems with suitable examples

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

3. Explain on permeation enhancers with suitable examples
4. Explain the concept of mucosal drug delivery systems
5. Role of polymers in drug delivery.
6. Explain the rationale of selecting drug candidates for controlled drug delivery.
7. Discuss the ideal formulation consideration of buccal patches
8. Explain the need for drug targeting
9. Outline the need for pulmonary drug delivery system

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

10. Write the limitations of controlled drug delivery systems
11. Mention the merits and demerits of buccal strips
12. Differentiate diffusion and dissolution type controlled drug delivery systems.
13. Enlist the ideal drug candidate for gastro-retentive drug delivery system
14. Explain on coacervation phase separation technique
15. Name any two categories of marketed inhalers with examples
16. Write the applications of monoclonal antibodies
17. Mention the importance of crosslinking agent in polymers
18. Write the applications of osmotic pump
19. Mention the applications of nasal drug delivery system

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