QP Code: 724006 Reg. No......

Seventh Semester B. Pharm Degree Regular/Supplementary Examinations February 2023 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. Classify approaches to design controlled release dosage forms. Explain the principle involved in the design of dosage form using ion exchange resins (5+5)
- 2. Discuss the formulation aspects in the development of buccal patches citing suitable examples

Short Notes (7x5=35)

- 3. Explain the basic components of transdermal patches
- 4. Importance of polymers in formulation development
- 5. Explain in-situ ocular delivery systems
- 6. Discuss formulation criteria for pulmonary route of drug administration
- 7. Differentiate between liposomes and niosomes
- 8. Discuss the limitations of conventional ocular delivery systems
- 9. Explain any three theories of mucoadhesion

Answer Briefly (10x2=20)

- 10. Define repeat action tablets with examples
- 11. Write the merits and demerits of transdermal patches
- 12. Mention two examples each of hydrophilic and hydrophobic polymers
- 13. Enlist ideal features of permeation enhancers with examples
- 14. What are implants. Give example
- 15. Classify types of nasal formulations
- 16. Enlist the applications of microencapsulation
- 17. Mention the applications of nanoparticles.
- 18. Write the scope of targeted drug delivery
- 19. Enlist physico-chemical factors affecting selection of drug candidate
