

Rajiv Gandhi University of Health Sciences, Karnataka

VII Semester B. Pharm Degree Examination – 05-Jun-2024

Max. Marks: 75 Marks

Time: Three Hours

NOVEL DRUG DELIVERY SYSTEM

Q.P. CODE: 5032

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary
All the Questions are compulsory

2 x 10 = 20 Marks

LONG ESSAYS

1. Define controlled drug delivery systems. Explain in detail physicochemical and biological properties of drugs relevant to the controlled release formulations
OR
Write the various methods of microencapsulation techniques. Explain any one method in detail with its applications.
2. Describe in detail about different formulations approaches of gastro retentive drug delivery systems.

7 x 5 = 35 Marks

SHORT ESSAYS

3. Classify polymers used in controlled release formulation with its applications.
OR
Write the formulation of buccal drug delivery system.
4. Explain diffusion mechanism in controlled drug delivery system.
OR
Write the advantages and disadvantages of implants.
5. Write about various components of transdermal drug delivery system.
6. Describe the formulation of nasal spray with example.
7. Write the structure and application of liposomes.
8. Discuss the ocular formulation with examples.
9. Write the development of intra uterine drug delivery system.

10 x 2 = 20 Marks

SHORT ANSWERS

10. Write any two advantages and disadvantages of targeted drug delivery systems.
11. Write any four ideal characters of polymers.
12. What is surface modified microparticulate drug delivery system?
13. Define osmotic pump.
14. Write the stages of mucoadhesion.
15. Write any four permeation enhancers in transdermal drug delivery system.
16. Write the advantages of metered dose inhaler.
17. Give advantages of monoclonal antibody.
18. Write the applications of nanoparticles.
19. What are advantages of copper intrauterine devices?
