

Rajiv Gandhi University of Health Sciences, Karnataka

VII Semester B. Pharm Degree Examination – 23-Nov-2022

Time: Three Hours

Max. Marks: 75 Marks

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

LONG ESSAYS

2 x 10 = 20 Marks

1. Discuss the criteria for selection of drugs to CDDS.

OR

Write the mechanism of mucoadhesion in buccal drug delivery systems.

2. Define Transdermal drug delivery system (TDDS)? Describe various basic components of TDDS.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Classify the polymers used to modify the drug release.

OR

What are implants? Explain drug release mechanism of osmotic pump.

4. Write about concept of mucoadhesion.

OR

Pharmaceutical applications of Microspheres.

5. Discuss gastro retentive DDS with their applications.
6. Write in details about Dry powder inhalers.
7. Write the composition and classification of liposomes.
8. What are Ocuserts? Write the challenges in delivering drug to the eye.
9. Classify and discuss the development of Intrauterine drug delivery systems.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the criteria followed to select polymers for Controlled release drug delivery systems.
11. Write factors affecting formulation of Controlled release drug delivery systems.
12. Define microsphere and microcapsules.
13. Explain the advantages and disadvantages of niosomes.
14. Enlist various methods of microencapsulation.
15. Write the excipients in nasal spray formulations.
16. Enlist any four applications of nanoparticles.
17. Give four examples of permeation enhancers used in Transdermal drug delivery systems.
18. What are monoclonal antibodies?
19. Write applications of intrauterine drug delivery system.
