

Rajiv Gandhi University of Health Sciences, Karnataka

VII Semester B. Pharm Degree Examination – 21-Jun-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. Describe in details about principles involved in the design of controlled drug delivery system.
- OR**
2. Discuss in details about methods of microencapsulation techniques with its application.
Explain different formulation approaches of transdermal drug delivery system.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the advantages and role of polymers in modified drug delivery.
- OR**
4. Describe osmotically regulated implants as new drug delivery system.
Write in details about physicochemical properties of controlled drug delivery formulations.
- OR**
5. Write note on biodegradable and non-biodegradable microspheres.
Write a short note on gastroretentive drug delivery system.
 6. Describe in details about metered dose inhalers.
 7. Write the advantages, disadvantages and applications of nanoparticles.
 8. Write short note on ocular drug delivery system.
 9. Describe about hormonal intrauterine drug delivery system.

SHORT ANSWERS

10 x 2 = 20 Marks

10. **State Korsmeyer's and Peppas model.**
11. Write few criteria to select polymers for controlled drug delivery.
12. Write note on magnetic microspheres.
13. Write advantages of implantable drug delivery system.
14. Enlist excipients used in nasal spray.
15. **Write types of liposomes.**
16. What are the strategies of drug targeting?
17. What are the types of contact lenses?
18. State SODI.
19. **What are monoclonal antibodies**
