

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination - 17-Jan-2020

Time: Three Hours**Max. Marks: 70 Marks**

INDUSTRIAL PHARMACY – I (RS-3)

a. Advanced Industrial Pharmacy

Q.P. CODE: 2621

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. Define controlled release drug delivery system. Write their advantages and disadvantages. Explain in detail the principle of controlled drug delivery system.
2. Describe novel drug delivery system. Explain the different therapeutic application of nanoparticles.
3. Explain different types of process validation. Discuss process validation of solid dosage form.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Comment about superiority of herbal formulations.
5. Explain the role of pharmacist in handling of allergenic extracts.
6. Describe about any two approaches for the design of transdermal drug delivery.
7. Define allergenic extracts. Explain the method of preparation of allergenic extracts.
8. Describe the importance of invitro evaluation of controlled release dosage form.
9. Write a note on various antiamoebic veterinary preparations.
10. Write a note on herbal antitussive preparations.
11. Discuss on importance of considerations of raw materials and preparation of master procedure in pilot plant scale up studies.

SHORT ANSWERS**10 x 2 = 20 Marks**

12. Give any four reason for poor bioavailability of drugs.
13. Write any two applications of drug targeting.
14. What are the objectives of validation?
15. Mention the applications of liposomes.
16. Write any two applications of niosomes.
17. What is solid dispersion? Give examples.
18. Enumerate the different veterinary dosage forms.
19. Give any two advantages of microspheres.
20. Write a brief note on fungal extracts.
21. Write about ideal characteristics of drugs used for buccal drug delivery.
