Rajiv Gandhi University of Health Sciences, Karnataka

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

Time: Three Hours   **Max. Marks: 80 Marks**

ADVANCED INDUSTRIAL PHARMACY (Revised Scheme - 2)
Q.P. CODE: 1971

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. Enumerate factors affecting protein binding of drugs with examples.

2. What are liposomes? Explain their concept, merits, demerits and applications.

3. Define pilot plant. List out its objectives and explain general considerations during pilot plant scale up studies.

SHORT ESSAYS (Answer any Eight)   **8 x 5 = 40 Marks**

4. Write short note on blood proteins to which drug bind.

5. Write a note on absorption of solid dosage forms.

6. Importance of in-vitro – in-vivo correlation

7. Explain the methods of in-vitro evaluation of controlled drug delivery systems.

8. List-out various factors that affect dissolution.

9. Explain phase-I biotransformation with examples.

10. What is process validation? Explain its salient features.

11. Explain the concept and mechanism of renal clearance.

12. Explain the various approaches to increase the bioavailability of a drug.

13. Explain two methods for calculating K_e from urinary excretion data.

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

14. List any four polymeric materials used in matrix tablet.

15. Give the advantages of implants.

16. Mention the application of nanoparticles.

17. What is first pass effect?

18. Define Flip-flop phenomenon.

19. Define biliary excretion.

20. Write a note on ion exchange resin-drug complexes.

21. Mention advantages of Microencapsulation.

22. Name four marketed herbal toothpastes.

23. Applications of pharmacokinetic models

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