Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B. Pharm Degree Examination – JAN-2019

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. Define Dosage regimen. List out the factors affecting dosage regimen and explain the adjustment of dosage regimen in renal failure.
2. Define Microencapsulation and give advantages and its disadvantages. Explain Wurster method of microencapsulation technique.
3. Define Novel drug delivery system. Give the concept, advantages and disadvantages of Ocular drug delivery.

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

4. Explain the approach of enhancing solubility of poorly soluble drugs by polymorphism.
5. Define Area Under Curve (AUC). Give the various methods to calculate AUC.
6. What are Liposomes? Mention preparation and applications of liposomes.
7. Define Pollen extracts. Give the general method of preparation of allergenic extracts.
8. Explain the concept, advantages and disadvantages of implants.
9. Define dissolution. Explain factors affecting the same.
10. Define Drugs targeting. Give its objective and application.
11. Define pilot plant. List out general factors to be considered for pilot plant.
12. Define and classify herbal formulations. Add a note on its advantages.
13. Classify veterinary products. Write briefly on bolus.

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

14. Define first pass metabolism.
15. Mention the assumption considered for one compartment modeling.
16. Differentiate between buccal and nasal drug delivery.
17. Define allergens and allergenic extracts.
18. Define Biliary excretion.
19. Give the relationship between bioavailability and therapeutic effect.
20. Give any two advantages and disadvantages of transdermal drug delivery.
21. Define validation. Give its objectives.
22. Give the graphical representation for various modified dosage forms.
23. Classify pharmacokinetic models. Give any two advantages of the same.

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