

# Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination - DEC 2017

**Time: Three Hours**

**Max. Marks: 70 Marks**

## **PHARMACEUTICAL FORMULATIONS (RS & RS2)**

**Q.P. CODE: 2866**

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. Give the criteria in selection of drugs for different granulation techniques. Compare wet and dry granulation
2. Explain in detail the production of parenteral products including the facilities and process of production.
3. Explain the different steps involved in the production of Hard gelatin capsule shell and filling of the same.

### **SHORT ESSAYS (answer any six)**

**6 x 5 = 30 Marks**

4. What are the different types of tablets? Write the formulation of a chewable tablet.
5. Explain with a neat labeled diagram the manufacture of soft gelatin capsules by rotary die process.
6. Describe the manufacture of hard gelatin capsule shell.
7. What are the requirements for formulation of ophthalmic formulations?
8. What are the different methods employed for improving solubilisation of drugs in liquid orals?
9. Explain the different transdermal drug delivery systems in detail.
10. Write various approaches used in parenteral controlled drug delivery systems.
11. Explain the evaluation of suspensions.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Classify pharmaceutical dosage forms.
13. Write the reason and remedy of orange peel effect.
14. What is bloom strength? Write its significance.
15. What is a class 100 area in a parenteral manufacturing unit?
16. Write the composition of rubber closure.
17. What is the role of molecular weight of polyethylene glycols in preparation of ointments?
18. Name two equipments involved in the production of emulsions.
19. Write the importance of nasal drug delivery systems.
20. Write a note on erodible ocular inserts.
21. Enumerate two formulations used for buccal delivery of drugs.

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