

# Rajiv Gandhi University of Health Sciences, Karnataka

First Year Pharma-D Examination – Feb/March 2011

**Time: Three Hours**

**Max. Marks: 70 Marks**

## PHARMACEUTICS

### Q.P. CODE: 2852

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. With the help of a diagram describe Soxhlet apparatus and the extraction process.
2. Define incompatibility. Discuss physical incompatibility and the therapeutic incompatibility in detail.
3. Discuss different parts of a prescription and give their significance. Explain handling of prescriptions.

#### SHORT ESSAYS (Answer any Six)

**6 x 5 = 30 Marks**

4. Surgical sutures and ligatures.
5. Reasons for emulsion instability.
6. Write a note on eutectic powders and explosive powders.
7. The displacement value of boric acid is 1.5. Calculate the amount of cocoa butter required to prepare such four suppositories each containing 600 mg of drug.
8. Write the principle involved in the preparation of magnesium hydroxide mixture B.P.
9. Define "dosage forms". Classify and define the different types of semisolid dosage forms.
10. Differentiate between ointments and pastes.
11. Explain the development of pharmaceutical industry in India.

#### SHORT ANSWERS

**10 x 2 = 20 Marks**

12. Define the term flocculated suspensions.
13. Write two formulae for the calculation of child based on body weight.
14. Lugol's solutions.
15. Suppositories.
16. Define "sublimation and fusion".
17. What is the difference between mouthwashes and gargles?
18. Name four stabilizers used in the formulations of monophasic liquid dosage forms.
19. Define enemas. Give two examples.
20. Define the term "proof spirit".
21. Write four advantages of powders as a dosage form.

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