

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
FIRST YEAR SECOND SEMESTER EXAMINATION – FEBRUARY 2014
PHACE 1207 PHARMACEUTICS I

Date: 06.03.2014

Time: 2 hours

ANSWER ALL EIGHT QUESTIONS

1. 1.1 List enteral routes for drug administration with examples? (40 Marks)
1.2 Explain the advantages and disadvantages of oral route administration. (60 Marks)
- 2 2.1 Define the term 'solutions' (20 Marks)
2.2 Describe methods to increase the solubility of drugs. (60 Marks)
2.3 List different preparations of solution. (20 Marks)
- 3 3.1 What are the qualities of good pharmaceutical suspensions? (30 Marks)
3.2 Mention the container, labeling and storage conditions for suspensions. (30 Marks)
3.3 Describe the advantages and disadvantages of suspensions. (40 Marks)
- 4 4.1 Classify the suppository bases with examples. (30 Marks)
4.2 What are the factors influencing the rectal absorption? (20 Marks)
4.3 A rectal suppository contains 450mg of boric acid, which has the displacement value for boric acid of 1.5 (with cocoa butter). The available mould sizes are 2, 3 and 5 gram (select the suitable mould). Calculate the required amount of base for 8 suppositories. (50 Marks)
- 5 5.1 Name the medicinal gases. (25 Marks)
5.2 How would you identify cylinders containing different medicinal gases? (30 Marks)
5.3 Explain the safe handling of medicinal gas cylinders. (45 Marks)
- 6 6.1 Define 'tablet'. (20 Marks)
6.2 What are the standard tests carried out to ensure the quality of tablet? (40 Marks)
6.3 Discuss problems in tableting. (40 Marks)
- 7 7.1 Give three types of emulsion. (15 Marks)
7.2 Classify the emulsifying agents. (30 Marks)
7.3 Briefly explain the instabilities of emulsion. (55 Marks)
- 8 Write short notes on
8.1 westphal balance. (30 Marks)
8.2 semisolid preparation. (40 Marks)
8.3 activities of pharmaceutical society. (30 Marks)