

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
FIRST YEAR SECOND SEMESTER EXAMINATION – January 2013
PHARMACEUTICS I - PHACE 1207
Paper II

Date: 11.02.2013

Time: 02 hours

ANSWER ALL EIGHT QUESTIONS.

1.
 - 1.1 Define “pessary BP”. (15 Marks)
 - 1.2 Write the advantages of medicated pesseries. (20 Marks)
 - 1.3 Write the disadvantages of medicated pesseries. (25 Marks)
 - 1.4 Write the importance of mold calibration of medicated pesseries. (40 Marks)

2.
 - 2.1 Define “tablet”. (15 Marks)
 - 2.2 List different types of tablets. (35 Marks)
 - 2.3 Write an account on tableting problems. (50 Marks)

3.
 - 3.1 List the quality control tests of a capsule. (20 Marks)
 - 3.2 Write the advantages of soft gelatin capsule. (50 Marks)
 - 3.3 A ‘00’ size capsule is filled with 500 mg amoxicillin (API). The filled powder density is 0.8g/ml. Find the total weight of the capsule? The details are given below. (30 Marks)

Parameters	Size			
	000	00	0	1
Weight (mg)	163 ± 10	118 ± 7	96 ± 6	76 ± 5
Volume (ml)	1.37	0.91	0.68	0.50
Length	26.1 ± 0.3	23.3 ± 0.3	21.7 ± 0.3	19.4 ± 0.3
Body outer diameter (mm)	9.55	8.18	7.34	6.63
Cap outer diameter (mm)	9.91	8.53	7.64	6.91

- 5.
- 5.1 Briefly explain the term “emulsion”. (30 Marks)
 - 5.2 Write the pharmaceutical usage of emulsions. (30 Marks)
 - 5.3 Describe how you would identify different types of emulsions. (40 Marks)
- 6.
- 6.1 What is “dosage form”? (20 marks)
 - 6.2 List dosage forms which are administered externally. (30 marks)
 - 6.3 Explain the qualities required for an internal dosage form. (50 marks)
- 7.
- 7.1 Name the equipments needed for the administration of “medicinal gases”. (15 Marks)
 - 7.2 How would you identify the cylinders containing different types of medicinal gases? (35 Marks)
 - 7.3 Write the instruction given to a pharmacist regarding medicinal gases on
 - 7.3.1. storage. (20 Marks)
 - 7.3.2. preparation for use. (15 Marks)
 - 7.3.3. use of cylinders. (15 Marks)
8. Write an account on
- 8.1 solubility of substances with the reference to British Pharmacopeia. (30 Marks)
 - 8.2 cream. (30 Marks)
 - 8.3 pharmaceutical mixtures. (40 Marks)