

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
FOURTH YEAR SECOND SEMESTER EXAMINATION – AUGUST 2017
PHAAP 4201 ADVANCED PHARMACEUTICS IV – PAPER II

Date: 16.08.2017

Time: 02 Hours

1.
 - 1.1. Explain how following factors that affect the oral absorption of drugs.
 - 1.1.1. Gastric emptying time (40 marks)
 - 1.1.2. Liphophilicity (30 marks)
 - 1.2. What is pH partition theory? (10 marks)
 - 1.3. Briefly explain the limitations of pH partition theory. (20 marks)

2.
 - 2.1. Describe the different types of hair conditioning agents. (30 marks)
 - 2.2. Give the advantages and disadvantages of soaps over surfactants in shampoo formulations. (20 marks)
 - 2.3. List the ingredients of lipstick formulations and their uses. (30 marks)
 - 2.4. Briefly explain the function of fluoride compounds that are used in the dentifrices. (20 marks)

3.
 - 3.1.
 - 3.1.1. What is preformulation? (10 marks)
 - 3.1.2. List the application of preformulation studies. (20 marks)
 - 3.2. Briefly explain how hydrolytic decomposition of drugs can be prevented? (30 marks)
 - 3.3. Briefly describe the constituents and their importance in the glasses that are used as pharmaceutical packages. (40 marks)

4.
 - 4.1. What is pilot plant scale up technique? (10 marks)
 - 4.2. Give the importance of pilot plant scale up techniques. (30 marks)
 - 4.3. Briefly explain the different steps involved in the pilot plant scale up techniques. (60 marks)

5.

5.1. Define the following terms.

5.1.1. Quality assurance (10 marks)

5.1.2. Quality control (10 marks)

5.1.3. Good manufacturing practice (10 marks)

5.2. List the different functions of quality assurance department in the pharmaceutical industry. (30 marks)

5.3. Briefly describe the good manufacturing practice that are followed in the production and process control. (40 marks)

6. Write an account on

6.1. glutathione conjugation. (40 marks)

6.2. biliary excretion of drugs. (60 marks)

XXXXXXXXXXXX