

UNIVERSITY OF JAFFNA
BACHELOR OF PHARMACY
FOURTH YEAR SECOND SEMESTER EXAMINATION — JULY 2015
PHAAP 4201 ADVANCED PHARMACEUTICS — PAPER II

Date: 07.07.2015.

Time: 02 Hours

ANSWER TO ALL SIX QUESTIONS

1.
 - 1.1 Briefly describe the pH partition theory for the transport of drugs across biological membrane. (50 Marks)
 - 1.2 Write a note on pilot pharmaceutical plant scale up technique. (50 Marks)
2.
 - 2.1 What are the storage conditions for various durations for the stability studies of drugs according to ICH guidelines? (30 Marks)
 - 2.2 Explain how bioavailability of drugs are affected by
 - 2.2.1. presystemic metabolism. (30 Marks)
 - 2.2.2. excipients present in the dosage form (40 Marks)
3.
 - 3.1 What is mixed function oxidase? (10 Marks)
 - 3.2 Give five examples for the oxidative metabolism of drugs. (30 Marks)
 - 3.3 Explain the role of chemical factors in the biotransformation of drugs. (60 Marks)
4.
 - 4.1 Write an account on common ingredients used in the face powder. (50 Marks)
 - 4.2 moisturizer. (50 Marks)
5.
 - 5.1 Describe the importance of solubility analysis in the preformulation studies. (40 Marks)
 - 5.2 Explain the role of lubricants in the tablet formulations. (40 Marks)
 - 5.3 List five materials used as plastic packaging. (20 Marks)
6.
 - 6.1 Briefly describe the degradation of drugs by oxidation and hydrolysis during storage with examples. (70 Marks)
 - 6.2 List the degradation pathways of drugs during storage other than oxidation and hydrolysis. (30 Marks)