

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FOURTH YEAR SECOND SEMESTER EXAMINATION IN BPharmHons – 2021
PHAAP 4214 ADVANCED PHARMACEUTICS – PAPER II

Date: 14.08.2023

Time: 02 Hours

Answer All Six Questions

- 1
- 1.1 List the physicochemical properties of drugs that affect the oral absorption (20 Marks)
 - 1.2 Briefly explain how
 - 1.2.1 gastric emptying time affect oral absorption of drugs. (60 Marks)
 - 1.2.2 buffered tablet increases the bioavailability of aspirin. (20 Marks)
- 2
- 2.1
 - 2.1.1 What is conjugating agents? (10 Marks)
 - 2.1.2 Explain how glutathione conjugation involved in the detoxification process. (40 Marks)
 - 2.2 Write an account on salivary excretion of drugs. (50 Marks)
- 3
- 3.1 Briefly describe the different types of synthetic detergents used in the shampoo formulation. (60 Marks)
 - 3.2
 - 3.2.1 List the major compounds included in the oxidation dyes. (15 Marks)
 - 3.2.2 Explain how oxidation dyes impart colour to hair. (25 Marks)
- 4
- 4.1 What is preformulation studies? (10 Marks)
 - 4.2 Briefly describe the bulk characterization of drug during preformulation studies. (40 Marks)
 - 4.3
 - 4.3.1 Define pilot plant scale up technique. (10 Marks)
 - 4.3.2 Write down the advantages of pilot plant studies. (40 Marks)

5

- 5.1 Briefly discuss the different methods used to stabilize the drugs against chemical degradation. (60 Marks)
- 5.2 Write down the
 - 5.2.1 storage conditions used for different types of stability studies. (15 Marks)
 - 5.2.2 requirements of materials used for packaging of pharmaceuticals. (25 Marks)
- 6. Write an account on
 - 6.1 Good manufacturing practice in production areas. (50 Marks)
 - 6.2 principle duties of quality assurance unit in pharmaceutical industry (50 Marks)