



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FOURTH YEAR SECOND SEMESTER EXAMINATION IN BPharmHons – 2022
PHAAP 4214 ADVANCED PHARMACEUTICS – PAPER II

Date: 13.08.2024

Time: 02 Hours

Answer All Six Questions

1

- 1.1 Define the following.
- 1.1.1 Relative bioavailability (10 Marks)
 - 1.1.2 Absolute bioavailability (10 Marks)
 - 1.1.3 Bioequivalents (10 Marks)
 - 1.1.4 Pharmaceutical equivalents (10 Marks)
- 1.2 Briefly explain different methods used to increase the solubility of poorly soluble drugs. (60 Marks)

2

- Briefly describe the followings:
- 2.1 Patient-related factors on bioavailability of drugs. (60 Marks)
 - 2.2 Biliary excretion of drugs. (40 Marks)

3

- 3.1 List and discuss different synthetic detergents agents used in the shampoo. (60 Marks)
- 3.2 Briefly explain the role of fluorides in toothpaste. (40 Marks)

4

- 4.1 What is preformulation? (20 Marks)
- 4.2 Write down the purposes of preformulation studies. (40 Marks)
- 4.3 List the different tests carried out in the pre-formulation studies. (40 Marks)

5

- Describe how drugs are protected by following decompositions.
- 5.1 Hydrolysis (60 Marks)
 - 5.2 Oxidation (40 Marks)

6

- Write an account on
- 6.1 Quality assurance. (50 Marks)
 - 6.2 Pilot plant scale-up. (50 Marks)