

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
FOURTH YEAR FIRST SEMESTER EXAMINATION IN BPharmHons – 2022
PHAPT 4112 PHARMACEUTICAL TECHNOLOGY III
Date: 04.03.2024
Time: 02 Hours

Answer All Four Questions

Answer Part A and B in separate booklets

PART A

- 1
- 1.1 List and discuss different synthetic detergents used in the shampoo preparations. (50 Marks)
- 1.2 Briefly explain
- 1.2.1 how deodorants reduce underarm odour. (30 Marks)
- 1.2.2 the function of fluorides in toothpaste (20 Marks)
- 2
- 2.1 What is preformulation? (10 Marks)
- 2.2 Briefly discuss different properties of diluents considered for their selection in the tablet formulation. (30 Marks)
- 2.3 Briefly explain how the following characteristics of drugs were evaluated during preformulation studies.
- 2.3.1 Hygroscopicity (20 Marks)
- 2.3.2 Polymorphs (40 Marks)
- 3
- 3.1 Describe how drugs are protected from hydrolytic decompositions. (40 Marks)
- 3.2 Write the advantages of
- 3.2.1 pilot plant studies. (30 Marks)
- 3.2.2 pharmaceutical validation. (20 Marks)
- 3.3 List the different plastic materials used in the pharmaceutical packaging. (10 marks)
- 4
- 4.1 Write an account on Good manufacturing practice on personal hygiene. (50 Marks)

PART B

4.2

- 4.2.1 Name four (04) commercially available plasma substitutes. (10 Marks)
- 4.2.2 List five (05) requirements of an ideal plasma substitute. (20 Marks)
- 4.2.3 Write a brief note on any one (01) of the plasma substitutes mentioned in 4.2.1 (20 Marks)