

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
THIRD YEAR SECOND SEMESTER EXAMINATION IN BPharmHons - 2022
PHAPT 3214 PHARMACEUTICAL TECHNOLOGY II

Date: 13.06.2024

Time: 03 Hours

Answer All Six Questions

Answer Part A & Part B in separate answer books

Part A

1. 1.1 Write down the rationale for coating tablets. (20 Marks)
- 1.2 List the properties of film-coating of tablets. (30 Marks)
- 1.3 Explain the sugar-coating process of tablets. (50 Marks)

2. 2.1 Explain the manufacturing of shell of hard gelatin capsule. (40 Marks)
- 2.2 Describe the quality control tests for hard gelatin capsules. (60 Marks)

3. 3.1 List the ingredients used in the preparation of semi-solid dosage forms. (10 Marks)
- 3.2 Give the rationale for using the ingredients mentioned in 3.1 (30 Marks)
- 3.3 Briefly explain five (05) quality control tests of semi-solid dosage forms. (50 Marks)
- 3.4 List the quality evaluation tests of suppositories. (10 Marks)

4. 4.1 Write down four main manufacturing areas in sterile product preparation. (20 Marks)
- 4.2 List the excipients used in parenteral preparations. (15 Marks)
- 4.3 Briefly explain the liquid filling methods in parenteral preparations. (35 Marks)
- 4.3 Write a short account on the preparation of ophthalmic ointments. (30 Marks)

Part B

5. 5.1 Give the merits and demerits of sustained drug delivery system. (40 Marks)
- 5.2 5.2.1 Define Targeted drug delivery system. (10 Marks)
- 5.2.2 Briefly explain the active and passive targeting. (30 Marks)
- 5.3 List the approaches that are used in the parenteral controlled drug delivery. (20 Marks)

6. 6.1 Briefly explain different methods used to induce coacervation to prepare microencapsules. (60 Marks)
- 6.2 Write down the pharmaceutical application of microencapsulation. (40 Marks)