



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**FACULTY OF ALLIED HEALTH SCIENCES**  
**THIRD YEAR SECOND SEMESTER EXAMINATION IN BPharm (Hons.)-2021**  
**PHAPT 3214 PHARMACEUTICAL TECHNOLOGY II**

**Date: 25.09.2023**

**Time: 03 Hours**

**Answer all Six questions**

1. 1.1 1.1.1 List the different methods of tablet manufacturing. (10 Marks)  
1.1.2 Write down the factors that considered in the choice of manufacturing methods of tablets. (15 Marks)  
1.1.3 Explain the rationale for granulation. (25 Marks)
- 1.2 1.2.2 Explain the manufacturing of capsule shell. (50 Marks)
2. 2.1 Briefly explain the methods used to enhance solubility of therapeutic agent in the development of solution dosage form. (30 Marks)  
2.2 Explain the preparation methods of suspensions. (50 Marks)  
2.3 List five (05) equipment used in the manufacturing of suspension. (20 Marks)
3. 3.1 Write down the ideal properties of semi solid dosage form. (20 Marks)  
3.2 List the different methods used for quality evaluation of semisolid dosage forms. (40 Marks)  
3.3 Briefly explain the different types of preparation of suppositories. (40 Marks)
4. 4.1 Write down the unique characteristics of parenteral solution? (10 Marks)  
4.2 Briefly describe the evaluation methods of parenteral solutions. (60 Marks)  
4.3 Briefly explain on formulation of ophthalmic preparations. (30 Marks)
5. 5.1 What is micro encapsulation? (10 Marks)  
5.2 Write down the pharmaceutical applications of micro encapsulation. (30 Marks)  
5.3 Briefly explain the following methods for the preparation of microencapsulation.  
5.3.1 Multi orifice – centrifugal process (30 Marks)  
5.3.2 Pan coating method (30 Marks)
6. 6.1 List the factors that influence on the design and performance of sustained release dosage forms. (20 Marks)  
6.2 Briefly explain various different approaches used in gastro retentive drug delivery systems. (40 Marks)  
6.3 What is targeted drug delivery? (10 Marks)  
6.4 Write down the application of liposomes. (30 Marks)