

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION IN B.PHARM (HONS) - 2019
PHACE 3134 PHARMACEUTICS IV- PAPER II

Date: 07.05.2021

Time: 02 Hours

Answer All Eight Questions.

1.
 - 1.1
 - 1.1.1 List the factors that determine the choice of tablet manufacturing methods. (30 marks)
 - 1.1.2 Explain the tablet defects that are due to low moisture content in the formulations. (30 marks)
 - 1.2 Discuss the five (05) different properties of diluents that are used in the manufacturing of tablets. (40 marks)
2.
 - 2.1 Explain the role of wetting agents in the hard gelatin capsules. (40 marks)
 - 2.2 Describe the different filling materials that are used in the formulation of soft gels. (60 marks)
3.
 - 3.1 What is microencapsulation? (10 marks)
 - 3.2 Describe the coacervation method in the preparation of microencapsules. (65 marks)
 - 3.3 List the methods other than coacervation for the manufacturing of microencapsules. (25 marks)
4. Explain the
 - 4.1 different formulation approaches to increase the ocular retention time of drugs. (30 marks)
 - 4.2 functions of different excipients that are used in the parenteral formulations. (70 marks)
5.
 - 5.1 Describe how particulate free air is maintained in the aseptic area of the sterile production. (40 marks)
 - 5.2 Explain five (05) coating defects that could occur in film coated tablets. (60 marks)

- 6.
- 6.1 Explain the function of liquefied gas propellants in inhalers. (55 marks)
 - 6.2 Give the advantages and disadvantages of 03 different types of liquefied gas propellants. (45 marks)
- 7.
- 7.1 Define the following drug delivery systems. (10 marks)
 - 7.1.1 Delayed drug delivery (10 marks)
 - 7.1.2 Sustained drug delivery (10 marks)
 - 7.1.3 Targeted drug delivery (10 marks)
 - 7.2 Describe the different components used in transdermal patches. (70 marks)
- 8.
- 8.1 Briefly explain the azo-prodrugs for the colon targeted drug delivery. (30 marks)
 - 8.2 Write a note on osmotic drug delivery systems. (70 marks)

