

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
SECOND YEAR SECOND SEMESTER EXAMINATION IN BPharm(Hons) – 2021
PHACE 2234 PHARMACEUTICS III – PAPER II



Date: 10.07.2023

Time: 02 Hours

Answer All Eight Questions

1.
 - 1.1 List the methods used to improve the solubilization of poorly soluble drugs. (40 Marks)
 - 1.2 Describe pH partition principle for transport of drugs across gastro intestinal membrane. (60 Marks)

2.
 - 2.1 Classify rheological systems. (15 Marks)
 - 2.2 Draw the rheograms of rheological systems that are mentioned in the 2.1. (45 Marks)
 - 2.3 Explain the importance of thixotropy in the oral suspension. (40 Marks)

3.
 - 3.1 Define colloidal dispersion. (10 Marks)
 - 3.2 Classify colloidal dispersion with one example for each. (30 Marks)
 - 3.3 Discuss the pharmaceutical application of colloids. (60 Marks)

4.
 - 4.1 What are surfactants? (10 Marks)
 - 4.2 Classify surfactants. (30 Marks)
 - 4.3 Briefly explain the micellar solubilization of substances. (60 Marks)

5.
 - 5.1 Write down the methods used to improve flow property of powder. (35 Marks)
 - 5.2 Explain the process of detergency. (65 Marks)

6.
 - 6.1 Define followings.
 - 6.1.1 Sedimentation volume (15 Marks)
 - 6.1.2 Degree of sedimentation (15 Marks)
 - 6.2 List four (04) examples of suspending agents. (20 Marks)
 - 6.3 Differentiate flocculated and deflocculated suspensions. (50 Marks)

- 7.
- 7.1 Define emulsion. (10 Marks)
 - 7.2 Classify emulsifying agents. (30 Marks)
 - 7.3 Write the desirable properties of emulsifying agents. (60 Marks)
8. Write an account on the followings:
- 8.1 Packaging arrangement of powder. (60 Marks)
 - 8.2 Structure of β -Cyclodextrin. (40 Marks)