



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART I EXAMINATION – NOVEMBER 2019

PH 2123 PHARMACEUTICS II B (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- There are four (04) questions in the SEQ paper.
- Part A and part B should be answered separately in the booklets provided.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

Part A

1.
 - 1.1. Define the term “pharmaceutical incompatibility”. (10 marks)
 - 1.2. Mention **three** major types of pharmaceutical incompatibilities. (15 marks)
 - 1.3. Define the term “parenteral administration”. (10 marks)
 - 1.4. Write a short note on “large volume parenteral fluids”. (25 marks)
 - 1.5. Discuss **three** major routes of parenteral administration. (40 marks)

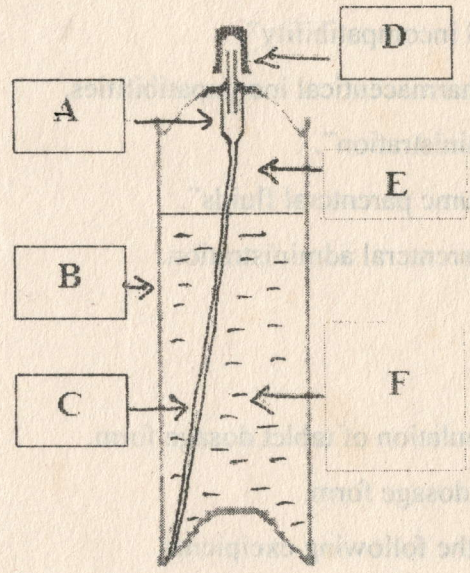
2.
 - 2.1. State **three** major stages in formulation of tablet dosage form. (15 marks)
 - 2.2. List **five** key attributes of tablet dosage form. (25 marks)
 - 2.3. State **two** examples for each of the following excipients. (30 marks)
 - 2.3.1. Binders
 - 2.3.2. Diluents
 - 2.3.3. Lubricants
 - 2.3.4. Disintegrants
 - 2.3.5. Flavoring agents
 - 2.4. Tabulate the steps in formulation of tablet dosage form using **three** different techniques. (30 marks)



Part B

- 3.
- 3.1. What are the main considerations in the dosage form design? (15 marks)
 - 3.2. Define the term "microencapsulation". (15 marks)
 - 3.3. Give **five** reasons for microencapsulation. (20 marks)
 - 3.4. Draw and identify all the parts of a hard gelatin capsule. (20 marks)
 - 3.5. Briefly explain the main steps involved in making the production of empty hard gelatin capsules. (30 marks)

- 4.
- 4.1. Define the term "pharmaceutical aerosol". (10 marks)
 - 4.2. Name A-F components of the below schematic diagram. (12 marks)



- 4.3. Provide **two** labeling information that should be on the primary container of a "flammable" or "extremely flammable" aerosol container. (08 marks)
- 4.4. Briefly explain the advantages of sub dermal implant contraceptives. (20 marks)
- 4.5. List **five** parameters of a good toothpaste formulation. (20 marks)
- 4.6. Compare and contrast sustained release dosage form and controlled release dosage form. (30 marks)

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