



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES
DEPARTMENT OF PHARMACY
SECOND BPHARM PART I EXAMINATION – NOVEMBER/DECEMBER 2023
PH 2114 PHARMACEUTICS IIA – SEQ PAPER

TIME: THREE HOURS

INSTRUCTIONS

- There are six questions in **Part A and Part B** of this paper.
- Answer **all** questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

01.

- 1.1. List five reasons to designing a specific dosage form using a drug. *(15 marks)*
- 1.2. Write four advantages of using powders as a dosage form. *(20 marks)*
- 1.3. State five methods that can be used to maintain the uniformity during the mixing phase of a powder preparation. *(20 marks)*
- 1.4. Briefly describe the differences between bulk powders and divided powders. *(25 marks)*
- 1.5. Write a brief account on granules as a dosage form. *(20 marks)*

02.

- 2.1. What is the primary difference between pharmaceutical emulsions and suspensions? *(15 marks)*
- 2.2. List three disadvantages of pharmaceutical suspensions as a dosage form. *(15 marks)*
- 2.3. List four major considerations in formulating a parenteral suspension. *(20 marks)*
- 2.4. Discuss how the flocculated suspensions are differ from non-flocculated suspensions. *(25 marks)*
- 2.5. Briefly describe the effects of particle size on suspensions. *(25 marks)*

PART B

03.

- 3.1. Define the term “ophthalmic preparations”. *(10 marks)*
- 3.2. List three barriers that effect on ocular drug delivery. *(15 marks)*
- 3.3. Write a short note on “ophthalmic inserts”. *(25 marks)*
- 3.4. What is the function of ceruminolytics used in otic preparations? *(10 marks)*
- 3.5. State two ceruminolytics used in otic preparations. *(10 marks)*
- 3.6. List three factors that influence on nasal drug absorption. *(15 marks)*
- 3.7. Briefly explain the importance of controlling the viscosity of nasal preparations with related to nasal drug absorption. *(15 marks)*

04.

- 4.1. List three advantages of rectal suppositories as a dosage form. (15 marks)
- 4.2. Write two types of suppository bases. (10 marks)
- 4.3. List four types of galenical preparations. (10 marks)
- 4.4. What is the meaning of “marc” and “menstruum” in galenical preparations? (15 marks)
- 4.5. Differentiate a surgical suture and a ligature. (15 marks)
- 4.6. List two advantages of surgical catgut. (10 marks)
- 4.7. Briefly discuss the absorbents, a secondary surgical dressing used in healthcare settings. (25 marks)

05.

- 5.1. List four factors which affect for percutaneous absorption. (10 marks)
- 5.2. Mention three main routes of transdermal drug penetration. (15 marks)
- 5.3. Write seven basic components of a transdermal drug delivery system. (15 marks)
- 5.4. Briefly discuss on hydrocarbon bases, a type of base for ointments and pastes. (30 marks)
- 5.5. Write a short note on “topical gels”. (30 marks)

06.

- 6.1. Define the term co-solvent giving an example. (15 marks)
- 6.2. Write short notes on the followings.
 - 6.2.1. Linctus (25 marks)
 - 6.2.2. Enema (25 marks)
 - 6.2.3. Mouthwash (25 marks)
- 6.3. List two precautions for handling an ear drop. (10 marks)

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