



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART I EXAMINATION – MARCH/APRIL 2021

PH 2114 PHARMACEUTICS II A - SEQ

TIME: THREE HOURS

INSTRUCTIONS

- There are six questions in parts A, B and C in this paper.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

01.

- 1.1 State four types of monophasic liquid dosage forms for oral use. (10 marks)
- 1.2 State one therapeutic use for each of the following. (10 marks)
- (i) Alcohol-based liniment
 - (ii) Oil-based liniment
- 1.3 List two major differences between liniments and lotions. (10 marks)
- 1.4 Mention four considerations in the formulation of monophasic liquid dosage forms. (20 marks)
- 1.5 Briefly describe the term “co-solvent” used in the formulation of monophasic liquid dosage forms. (25 marks)
- 1.6 Briefly explain the term “gargles”, giving two examples. (25 marks)

02.

- 2.1 Define the term “Transdermal Drug Delivery System (TDDS)”. (10 marks)
- 2.2 State five factors that affects the percutaneous absorption of a medicine. (10 marks)
- 2.3 Give two advantages and two disadvantage of transdermal drug delivery systems. (20 marks)
- 2.4 Write two preservatives which can be incorporated in ointments. (10 marks)
- 2.5 State three examples for water miscible bases. (15 marks)
- 2.6 Write a short account on water soluble bases, which are a common type of base used in ointments and pastes. (35 marks)

03.

- 3.1 Briefly describe the term “primary surgical dressings”. (25 marks)
- 3.2 Briefly describe the manufacturing procedure of “surgical catgut”. (25 marks)

PART B

- 3.3 List five factors that affect drug absorption from rectal suppositories? (10 marks)
- 3.4 Briefly describe the differences between rectal and vaginal suppositories. (20 marks)

- 04.
- 4.1 What is meant by ophthalmic preparations? *(10 marks)*
 - 4.2 Write five types of medicines used as ophthalmic preparations giving one example for each type. *(20 marks)*
 - 4.3 State six precautionary advices that you should give when dispensing an eye drop. *(20 marks)*
 - 4.4 State three therapeutic conditions for ear preparations. *(15 marks)*
 - 4.5 Briefly describe advantages of nasal drug delivery systems. *(35 marks)*

PART C

- 05.
- 5.1 State three disadvantages of powder dosage form. *(15 marks)*
 - 5.2 Write four methods used for mixing powders. *(20 marks)*
 - 5.3 List four types of bulk powders intended for external use. *(20 marks)*
 - 5.4 Briefly describe one type of powder you mentioned in 5.3. *(20 marks)*
 - 5.5 Briefly explain the term “dividing powders”. *(25 marks)*
- 06.
- 6.1 What is an emulsion? *(10 marks)*
 - 6.2 Write five advantages of emulsions. *(20 marks)*
 - 6.3 List five characteristics features of an emulsifying agent. *(20 marks)*
 - 6.4 State five examples of emulsifying agents used in the preparation of emulsions. *(20 marks)*
 - 6.5 Briefly explain wet gum method used in the preparation of emulsions. *(30 marks)*

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