



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

SECOND BPHARM PART I EXAMINATION – JULY 2018

PH 2114 PHARMACEUTICS IIA (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

- There are **six** questions in parts A and B of SEQ paper.
- Answer **each** part in a separate booklet.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

1.

- 1.1. Classify pharmaceutical powders. (10 marks)
- 1.2. Briefly explain **three** types of instabilities of emulsion dosage form. (30 marks)
- 1.3. Define the term “deflocculated system”. (10 marks)
- 1.4. Briefly describe the impact of the “zeta potential” on dosing accuracy of a suspension. (20 marks)
- 1.5. Briefly explain **five** different properties of an ideal pharmaceutical suspension. (30 marks)

2.

- 2.1.
 - 2.1.1. Define the term “suppository”. (15 marks)
 - 2.1.2. Give a brief description on advantages of suppositories as a dosage form. (30 marks)
 - 2.1.3. Indicate **three** functions of suppository bases. (15 marks)
- 2.2. Write a short note on the use of “hydrogels as a wound dressing”. (40 marks)

3.

- 3.1. Define the term “ophthalmic dosage form”. (20 marks)
- 3.2. Briefly describe **three** barriers for ophthalmic drug absorption. (30 marks)
- 3.3. Write an account on “eye strips”. (30 marks)
- 3.4. Briefly describe the roller compaction method used in the preparation of granular dosage form. (20 marks)

- 4.
- 4.1. Briefly explain the operation and principle of precision olfactory delivery (POD) system with an appropriate diagram. (40 marks)
- 4.2. Indicate **five** factors that affect the nasal drug absorption. (20 marks)
- 4.3. Briefly explain functions of the layers in transdermal drug delivery system. (40 marks)
- 5.
- 5.1. Briefly describe the following.
- 5.1.1. Iontophoresis (25 marks)
- 5.1.2. Microneedles (25 marks)

PART B

- 5.2. Differentiate gargles from throat paints, giving **two** examples for each. (10 marks)
- 5.3. State **three** instructions that you should give to a patient during dispensing a liniment. (15 marks)
- 5.4. Explain briefly the administration procedure of nasal solutions. (25 marks)
- 6.
- 6.1. Explain briefly the term “monophasic dosage forms”. (15 marks)
- 6.2. State **five** advantages and **five** disadvantages of pharmaceutical solutions. (30 marks)
- 6.3. List **five** types of internally used pharmaceutical solutions. (15 marks)
- 6.4. Discuss formulation requirements for pharmaceutical solutions. (40 marks)

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