



**UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES**

**DEPARTMENT OF PHARMACY**

**SECOND BPHARM PART I EXAMINATION – NOVEMBER 2019**

**PH 2114 PHARMACEUTICS II A (SEQ)**

**TIME: THREE HOURS**

**INSTRUCTIONS**

- There are six (06) questions in Part A and B in 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. List **two** advantages and **two** disadvantages of pharmaceutical suspensions. (20 marks)
- 1.2. List **four** main classes of emulsifying agents. (20 marks)
- 1.3. Define the term "surgical sutures". (10 marks)
- 1.4. State the main difference between absorbable and non-absorbable sutures. (10 marks)
- 1.5. Briefly describe **four** characteristic features of surgical dressings. (40 marks)

**2.**

- 2.1. List **five** types of galenical preparations. (15 marks)
- 2.2. List **four** ideal qualities of solvents which are used during the process of plant extraction. (20 marks)
- 2.3. Briefly describe **three** disadvantages of pharmaceutical powders. (45 marks)
- 2.4. List the steps involved in the preparation of pharmaceutical powders for dispensing. (20 marks)

**3.**

- 3.1. Classify pharmaceutical powders based on the manner of dispensing. (45 marks)
- 3.2. List **three** types of paper materials that can be used to wrap pharmaceutical powders. (15 marks)
- 3.3. Define the term "suppository". (10 marks)
- 3.4. State **three** routes of administration of suppositories. (15 marks)
- 3.5. State **three** examples for suppository bases. (15 marks)



4.

- 4.1. List **four** instructions you would provide when dispensing transdermal patches. (20 marks)
- 4.2. List **two** therapeutic agents which are available as transdermal patches. (10 marks)
- 4.3. Describe **four** reasons for developing pharmaceutical dosage forms. (40 marks)
- 4.4. Briefly explain about eye strips. (30 marks)

5.

- 5.1. Define the term "otic preparations". (10 marks)
- 5.2. State the importance of controlling particle size of solid particles in ophthalmic suspensions. (20 marks)
- 5.3. Liquid nasal squeeze bottles are one of the nasal drug delivery method. Briefly explain about liquid nasal squeeze bottles. (20 marks)

### Part B

- 5.4. Briefly explain the following regarding a pharmaceutical solution.
- 5.4.1. Stability (25 marks)
- 5.4.2. Pharmaceutical elegance (25 marks)

6.

- 6.1. State **one** advantage and **one** disadvantage of monophasic dosage forms. (10 marks)
- 6.2. Classify the monophasic dosage forms giving **two** examples for each. (20 marks)
- 6.3. Briefly explain **three** approaches to increase the solubility of drugs in a pharmaceutical solution. (20 marks)
- 6.4. Describe **four** types of monophasic dosage forms used internally. (50 marks)

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