

## UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES DEPARTMENT OF PHARMACY

## SECOND BPHARM PART I EXAMINATION – JANUARY/FEBRUARY 2023 PH 2114 PHARMACEUTICS IIA - SEQ PAPER

TIME: THREE HOURS

## **INSTRUCTIONS**

- There are three parts as part A, B and C in this paper.
- Answer all questions.
- No paper should be removed from the examination hall.

2.3. List three methods use to prepare aromatic waters.

- Do not use any correction fluid.

| • Use illustrations where necessary.   |                  |
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| PART A   |                  |
| 1.   |                  |
| <ul><li>1.1.</li><li>1.1.1. Define 'suppositories' according to the British Pharmacopoeia.</li><li>1.1.2. Write two main categories of suppository bases giving one example for example.</li></ul> | (10 marks)       |
| 1.1.2. Write two main entegories of suppository bases giving one example for   | (10 marks)       |
| 1.1.3. Briefly explain the manufacturing process of suppositories.   | (20 marks)       |
| State the equipment uses for the separation of powder particles by state  1.2  1.2   |                  |
| 1.2.1. Briefly describe the advantages and disadvantages (three of each) of oph  | thalmic dosage   |
| forms.   | (30 marks)       |
| 1.2.2. Write four formulation considerations of ophthalmic dosage forms.   | (20 marks)       |
| 1.2.3. List four factors which affect the drug absorption through the nasal route  | e. (10 marks)    |
| e the two types of omulaions when classified based on dispersed plans (10 mm)  |                  |
| these methods use in the preparation of permany cambrons.  2. 01 1. The type of an employed out to identify the type of an employed.   |                  |
| 2.1. Define the terms 'Menstruum' and 'Marc' related to extraction of med  | licinally active |
| ingredients from natural products.   | (10 marks)       |
| 2.2. Briefly explain the main steps involved in general method of preparing Galen  | icals.           |

## PART B

- 2.4. List two factors which affect for percutaneous absorption. (10 marks)
- 2.5. Give one advantage and one disadvantage of transdermal drug delivery systems. (10 marks)
- 2.6. Describe the procedure for preparation of a pharmaceutical cream in a manufacturing firm.

(30 marks)

(25 marks)

(15 marks)

| 3. WE THE STATE OF THE OTHER TO STATE OF THE |               |
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| 3.1. Answer following regarding monophasic liquid dosage forms.  |               |
| 3.1.1. State two advantages and two disadvantages.   | (20 marks)    |
| 3.1.2. List two types of monophasic liquid dosage forms that could be instilled  | ed into body  |
| cavities.  | (10 marks)    |
| 3.2. Write short notes on following.   |               |
| 3.2.1. Elixirs   | (25 marks)    |
| 3.2.2. Difference between a lotion and a liniment  | (20 marks)    |
| 3.2.3. Gargles   | (25 marks)    |
| one three parts as part A. B and C in this proper  |               |
| 4.   | (10           |
| 4.1. Define the term "surgical aid".   | (10 marks)    |
| 4.2. List four features of ideal surgical dressings.   | (20 marks)    |
| 4.3. Classify the surgical dressings.  | (20 marks)    |
| 4.4. List two non-absorbable synthetic sutures.  | (10 marks)    |
| 4.5. Explain the manufacturing process of surgical cat gut.  | (40 marks)    |
|  |               |
| PART C   |               |
| 5.   | i al marridan |
| 5.1. "Particle size reduction and sieving are two main steps in pharmaceu preparation."  |               |
| 5.1.1. List four equipment use in large scale particle size reduction process.   | (10 marks)    |
| 5.1.2. Briefly describe "pulverization by intervention".   | (15 marks)    |
| 5.1.3. State the equipment uses for the separation of powder particles by size.  | (10 marks)    |
| 5.2. Write a short description on "bulk powders for internal use".   | (20 marks)    |
| 5.3. List four reasons to use granules instead of powders.   | (20 marks)    |
| 5.4. Describe the dry granulation method use in the preparation of granules.   | (25 marks)    |
| cure (IE). Region egasob ominaningo no anonascente monatario, and sector storas.   |               |
| 6. 6.1. Write the two types of emulsions when classified based on dispersed phase.   | (10 marks)    |
| 6.1. Write the two types of emulsions when classified based on dispersor plants  | (15 marks)    |
| <ul><li>6.2. State three methods use in the preparation of primary emulsions.</li><li>6.3. Describe three tests that can be carried out to identify the type of an emulsion.</li></ul>   | (30 marks)    |
| 6.3. Describe three tests that can be carried out to identify the type of an emanated  | (10 marks)    |
| 6.4. Briefly describe "suspensions containing in-diffusible solids".   | (20 marks)    |
| 6.5. List four advantages of pharmaceutical suspensions.   |               |
| 6.6. Wetting agents are added in the preparation of a pharmaceutical suspension.   | (15 marks)    |

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the reason for using them.