

Original

Index No:.....



UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE

ALLIED HEALTH SCIENCES DEGREE PROGRAMME

SECOND B. PHARM PART I EXAMINATION – JUNE 2016

PH 2114: PHARMACEUTICS IIA (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

- Answer all questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

I.

1.1

1.1.1 State two (02) different ways of classifying pharmaceutical dosage forms, giving two (02) examples each.

(15 marks)

1.1.2 State the need for different types of pharmaceutical dosage forms.

(25 marks)

1.2 The following table describes different galenical preparations.

Preparation	Basic description	Examples
A. Infusions	Dilute solutions containing readily soluble constituents of drug with cold or boiling water and the microbial contamination is E	G
B.	Saturated solutions of volatile oils or other aromatic substances in water which are used for F properties	H.....
C.	Liquid preparations usually prepared by extracting plant materials with alcohol or hydroalcoholic mixtures	I
D. Powdered extracts	Solid preparations having a powdery consistency obtained by evaporation of the solvent used for extraction	J.....

1.2.1 Identify B and C.

(18 marks)

B C

1.2.1 Fill in the blanks, E and F with a suitable word or a phrase.

(12 marks)

E
F

1.2.2 Give examples (G, H, I and J) for each preparation.

(10 marks)

G..... I.....
H..... J.....

3.4 Define the term 'ophthalmic inserts'.

(05 marks)

3.5 State four (04) advantages of ophthalmic inserts

(08 marks)

3.6 List five (05) factors affecting drug absorption in nasal drug delivery systems.

(10 marks)

3.7 State five (05) physico-chemical properties of a drug that needs to be considered when developing a nasal preparation.

(10 marks)

3.8 Briefly explain the effect of one parameter mentioned in 3.7 above.

(20 marks)

3.9 Define 'otic preparations'.

(10 marks)

3.10 State the importance of controlling viscosity when formulating otic preparations?

(03 marks)

3.11 State two examples for viscous vehicles that could be used in otic preparations.

(04 marks)

5.2. Define the term 'density displacement value'.

(10 marks)

5.3. Assume that you are requested to prepare 2 sets of 1 g suppositories (set A and set B). Set A requires 15 suppositories each containing 100 mg of drug X only. Set B requires 15 suppositories each containing 50 mg of drug X and 300 mg of drug Y in all 15 suppositories.

Theobroma oil is used for the base of both sets of suppositories.

(40 marks)

Density Displacement Value of drug X=0.7

Density Displacement Value of drug Y=1.5

Fill the below table

	Set A	Set B
Drug amount	(Drug X)	(Drug X) (Drug Y).....
Base (Theobroma oil) amount		
Total weight		
Weight of 1 suppository		

5.4. State five (05) factors that affect percutaneous absorption.

(10 marks)

