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# <u>UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES</u> <u>DEPARTMENT OF PHARMACY</u> <u>SECOND BPHARM PART I EXAMINATION – JANUARY/FEBRUARY 2023</u> PH 2123 PHARMACEUTICS IIB – SEQ PAPER

### **TIME: TWO HOURS**

## INSTRUCTIONS

- There are four questions in part A and B in this paper.
- Answer all questions.
- No paper should be removed from the examination hall.
- 'Do not use any correction fluid.
- Use illustrations where necessary.

# PART A

	1.1.	Define the term "parenteral administration".	(10 marks)
	1.2.	Mention two advantages and two disadvantages of parenteral formulations.	(20 marks)
	1.3.	Write a short note on aqueous vehicles used for injections.	(20 marks)
	1.4.	Briefly describe about packaging of parenteral products.	(20 marks)
		Briefly explain the therapeutic pharmaceutical incompatibility.	(20 marks)
	1.6.	List two other basic types of pharmaceutical incompatibilities.	(10 marks)
2.			
	2.1.	List two advantages and two disadvantages of the tablet dosage form.	(20 marks)
	2.2.	"Enteric coated tablets have delayed release properties". Briefly explain.	(20 marks)

2.3. Illustrate the procedure for wet granulation process of a tablet using a flow chart.

	(30 marks)
2.4. Mention two types of tablet coatings.	(10 marks)
2.5. Write four reasons for coating a tablet.	(20 marks)

#### PART B

## 3.

3.1. Define the term 'microencapsulation'.(10 marks)3.2. Briefly explain the applications of microencapsulation in the pharmaceutical industry.(30 marks)

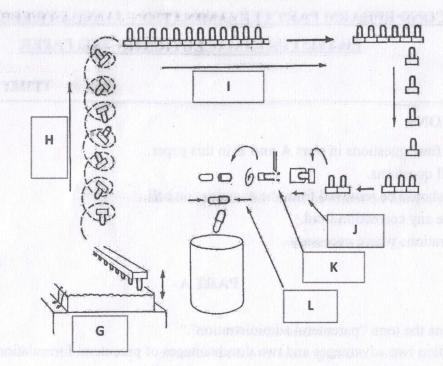
3.3. Name the classes of excipients suitable to fulfill below requirements in empty hard gelatin capsule production. Give one example for each class of excipient you mentioned.

(24 marks)

- a) Getting the required thickness of the shell
- b) Maintaining the shape of the capsules
- c) To prevent the shell from microbial contamination
- d) Colored soft gelatin capsules

1

3.4. Briefly explain the main steps (G-L) involved in making empty hard gelatin capsules. (36 marks)



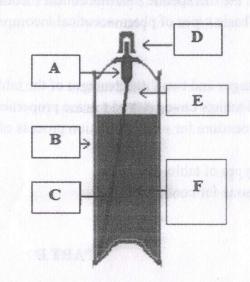


4.1. Name A-F components of the below schematic diagram.

(24 marks)

(20 marks)

(20 marks)



4.2. Provide two labeling information that should be on the primary container of a "flammable" or "extremely flammable" aerosol container. (16 marks)
4.3. Write short notes on the following topics.

- 4.3.1. Use of plasma as a blood product
- 4.3.2. Characteristics of drugs unsuitable for sustained release dosage form (20 marks)
- 4.3.3. Advantages of sub-dermal contraceptive implants

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2