THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
THE ACADEMIC YEAR 2020/ 2021 – SEMESTER I

BACHELOR OF PHARMACY HONOURS
FMU4501- PHARMACEUTICS II - LEVEL 4
FINAL EXAMINATION
DURATION: THREE (03) HOURS

DATE: 16TH MARCH 2023 TIME: 9.30 A.M.- 12.30 P.M.

Part B – Short Answer Questions (20 Marks)

1.

1.1 Define Transdermal Delivery Systems (TDS) (05 marks)

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1.2 List three (03) examples of TDS. (03 Marks)

I. .....

II. .....

III. .....

1.3 List two (02) advantages of suspensions over liquids. (02 marks)

I. .....

II. .....

2.

2.1. List the three (03) stages of granule formation. (03 marks)

I. .....

II. .....

III. .....

Index No: .....

2.2. List four (04) quality aspects of medical devices. (04 marks)

I. .....

II. .....

III. .....

IV. .....

2.3. List the three (03) factors affecting the delivery of aerosol. (03 marks)

I. .....

II. .....

III. .....

Index No: .....

Part C- Structured Essay Questions (60 Marks)

1.

1.1 Write three (03) advantages of controlled drug delivery systems. (03 marks)

1.2 Write a short note on the altered density system used to achieve gastro retention in control drug delivery systems. (12 marks)

2.

2.1 List the international color code for cylinders that carry the following medical gases. (03 marks)

2.1.1 Oxygen
2.1.2 Carbon dioxide
2.1.3 Nitrous oxide

2.2 Write one use for each gas mentioned in 2.1 (03 marks)

2.3 Write a short note on the safety aspects of handling medical gases. (09 marks)

3.

3.1. What are enteric-coated tablets? (03 marks)

3.2. List the three (03) types of equipment used in wet granulation. (03 marks)

3.3. Briefly explain the conventional pan system used in tablet coating. (09 marks)

4.

4.1. If 230 ml of alcohol weighs 205 grams, what is the density of alcohol? (02 Marks)

4.2. A cough syrup contains 1 mg of chlorpheniramine maleate in each teaspoon. If double strength of cough syrup is required in each teaspoon; how many milligrams of the ingredient is required to be added to the 60 mL syrup? (04 marks)

4.3. Calculate the weight of sodium chloride and pilocarpine nitrate required to prepare 60 mL of a 1% w/v solution of pilocarpine nitrate isotonic with tears. (freezing point depression of 1% pilocarpine nitrate and sodium chloride are 0.14°C and 0.58°C respectively) (09 Marks)