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

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

DATE: 11TH MARCH 2022 TIME: 9.30 A.M.- 12.30 P.M.

Part B – Short Answer Questions (20 Marks)

1.

1.1 Body powder/ talcum powder/ dusting powder is considered as a cosmetic. List five (05) tests used in the evaluation of above cosmetic. (05 Marks)

I. .....
II. .....
III. .....
IV. .....
V. .....

1.2 What are "Radio Pharmaceuticals"? (02 Marks)

.....
.....

1.3 List three (03) types of tablet defects. (03 Marks)

I. .....
II. .....
III. .....

2.

2.1. Give three (03) examples for health supplements and indicate the main use of each. (03 Marks)

I. .....
II. .....
III. .....

Index No: .....

2.2. List the five (05) components of a transdermal patch. (05 Marks)

I. .....

II. .....

III. .....

IV. .....

V. .....

2.3. List the two (02) types of nebulizers which are available for use as aerosol generators. (02 Marks)

I. .....

II. .....

Index No.....

Part C- Structured Essay Questions (60 Marks)

1.

1.1 Explain three (03) advantages and two (02) disadvantages of controlled drug delivery systems. (05 Marks)

1.2 Describe the controlled drug delivery systems given below.

1.2.1 Reservoir based type (05 Marks)

1.2.2 Osmotic system (05 Marks)

2.

2.1. Briefly describe the two (02) principal methods of compression used in tablet manufacturing. (05 Marks)

2.2. Write an account on the important steps involved in wet granulation process. (10 Marks)

3.

3.1.Briefly describe four (04) tests used to monitor the quality of parenteral finished products. (06 Marks)

3.2. List four (04) types of sterilization methods used in parenteral preparations. (02 Marks)

3.3.Write brief accounts on the following.

3.3.1. Small volume parenteral (04 Marks)

3.3.2. Large volume parenteral (03 Marks)

4.

4.1 Briefly describe the fundamentals of packaging materials of pharmaceuticals. (04Marks)

4.2 What is the main difference between "Thermoset plastic" and "Thermoplastic materials"? (02 Marks)

4.3 Briefly describe types of glass used in pharmaceutical packaging. (09 Marks)