

BACHELOR OF PHARMACY HONOURS
FMU4306 - PHARMACEUTICAL MICROBIOLOGY II- LEVEL 4
ACADEMIC YEAR 2019/2020 – SEMESTER II
FINAL EXAMINATION

DATE: 03RD AUGUST 2021

TIME: 9.30 A.M.- 12.30 P.M.

Part - B (20 marks)

1.

- 1.1. List two (02) types of vaccines used for active immunization giving one (01) example for each. (04 marks)

I.

Example

II.

Example

- 1.2. List three (03) vaccines recommended in the schedule for Expanded Programme of Immunization (EPI) in Sri Lanka. (03 marks)

I.

II.

III.

- 1.3. Briefly explain the term ‘Immunological memory’. (03 marks)

.....

.....

.....

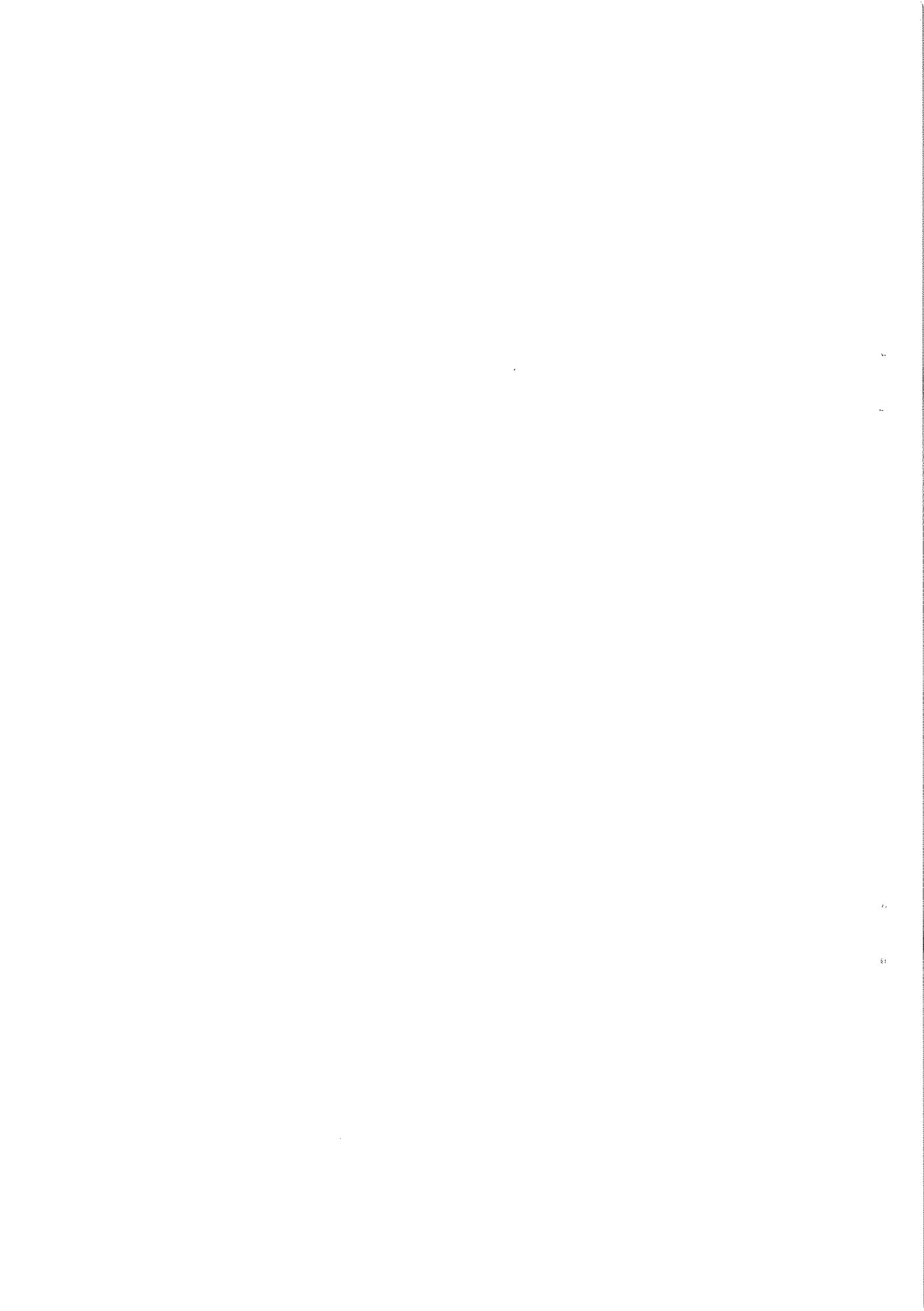
.....

.....

.....

.....

.....



Index No.....

2.

2.1. List two (02) major uses of serological tests. (04 marks)

- I.
.....
II.
.....

2.2. Give two (02) examples for serological tests. (02 marks)

- I.
II.

2.3. List two (02) laboratory diagnostic methods used to detect viruses. (02 marks)

- I.
II.

2.4. Briefly explain the phrase “minimum inhibitory concentration”. (02 marks)

-
.....
.....
.....
.....
.....
.....
.....
.....

Part - C (60 marks)

1.
 - 1.1. State two (02) types of nematodes based on the habitat of the adult worm. (02 marks)
 - 1.2. List three (03) parasites which cause malaria. (03 marks)
 - 1.3. Explain the lifecycle of malaria parasite (*Plasmodium falciparum*). (10 marks)
2.
 - 2.1. State four (04) sources of contamination. (02 marks)
 - 2.2. List three (03) pharmaceutical ingredients that are susceptible to microbial attack. (03 marks)
 - 2.3. Briefly describe how two (02) pharmaceutical excipients mentioned in 2.2 are susceptible to microbial attack. (06 marks)
 - 2.4. State four (04) precautions to be taken to control the microbial contamination in the hospital setting. (04 marks)
3.
 - 3.1. What is batch fermentation? (03 marks)
 - 3.2. State four (04) pharmaceutical products that are manufactured using the fermentation methods. (02 marks)
 - 3.3. Write short notes on
 - a) Isolation of benzylpenicillin using the solvent extraction method. (05 marks)
 - b) antisera (05 marks)
4.
 - 4.1. List three (03) types of Enzyme-Linked Immunosorbent Assay (ELISA) tests. (03 marks)
 - 4.2. Give four (04) methods of sterilization. (02 marks)
 - 4.3. Briefly explain two (02) methods mentioned in 4.2. (04 marks)
 - 4.4. Briefly explain how biological type of indicators is used to monitor completion of sterilization process. (06 marks)