

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
FIRST YEAR SECOND SEMESTER EXAMINATION -MARCH 2019
PHABMP 1264 BASIC MICROBIOLOGY & PARASITOLOGY

PAPER II

Date: 21.03.2019

Time: 2 hours

ANSWER ALL SIX QUESTIONS.

ANSWER PARTS A AND B IN SEPARATE ANSWER BOOKS

PART A

1.
 - 1.1 Name three groups of antibiotics and state their mechanism of action on bacterial cell. **(15 Marks)**
 - 1.2 Define the term “antimicrobial resistance”. **(10 Marks)**
 - 1.3 List the causes for emergence of antimicrobial resistance in bacteria. **(20 Marks)**
 - 1.4 Briefly describe on the negative impacts of antimicrobial resistance in healthcare system. **(25 Marks)**
 - 1.5 Briefly discuss on the prevention and control of antimicrobial resistance. **(30 Marks)**
2.
 - 2.1 Define the following
 - 2.1.1 Sterilization **(05 Marks)**
 - 2.1.2 Disinfection **(05 Marks)**
 - 2.2 Briefly describe various methods of sterilization with examples. **(60 Marks)**
 - 2.3 Briefly discuss the different types of chemical disinfectants. **(30 Marks)**
3. Write notes on the followings:
 - 3.1 Exotoxins **(30 Marks)**
 - 3.2 Disc diffusion methods used in ABST **(30 Marks)**
 - 3.3 Dermatophytosis **(40 Marks)**

- 4.
- 4.1 List the types of immunoglobulins and briefly describe their functions. **(30 Marks)**
- 4.2 Briefly describe the innate immune responses. **(40 Marks)**
- 4.3 Write notes on Type I Hypersensitivity. **(30 Marks)**

PART B

- 5.
- 5.1. Name the parasite that can cause each of the following skin conditions:
- 5.1.1 cutaneous leishmaniasis **(10 Marks)**
- 5.1.2 scabies **(10 Marks)**
- 5.2 Name the drugs that are used to treat each of the skin condition mentioned in 5.1.1 and 5.1.2 **(50 Marks)**
- 5.3 How will you advice the patient, while dispensing the drug, in order to treat the skin condition mentioned in 5.1.2. **(30 Marks)**
- 6.
- 6.1 Name the intestinal worms causing infections in human. **(20 Marks)**
- 6.2 Which of the above parasite causing strong itching in the anal area (pruritis ani) in human. **(10 Marks)**
- 6.3 What are the challenges in treating the patients infected with the parasites which you mentioned in 6.2. **(35 Marks)**
- 6.4 What are the other measures should be taken in addition to the drug treatment to overcome the challenges which you mentioned in 6.3. **(35 Marks)**