



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION IN BPharmHons-2021
PHABMP 1264 BASIC MICROBIOLOGY AND PARASITOLOGY – PAPER II

Date: 12.06.2023

Time: 02 hours

ANSWER ALL SIX QUESTIONS

1.

- 1.1. Name two Gram-positive and Gram-negative bacteria. (20 Marks)
- 1.2. List the groups of bacteria based on oxygen requirement for their growth with an example for each. (30 Marks)
- 1.3. Name three (03) solid culture media and three (03) liquid culture media used for bacterial growth. (20 Marks)
- 1.4. Describe the phases of bacterial growth curve. (30 Marks)

2.

- 2.1. Name four (04) main groups of antibiotics based on their mode of action with an example for each (20 Marks)
- 2.2. Define “Antimicrobial resistance”. (10 Marks)
- 2.3. Briefly explain the biological mechanisms of antimicrobial resistance. (30 Marks)
- 2.4. Briefly discuss the prevention and control of antimicrobial resistance. (40 Marks)

3.

- 3.1. Define the following terms:
 - 3.1.1. Disinfection. (10 Marks)
 - 3.1.2. Sterilization. (10 Marks)
- 3.2. List five (05) chemical classes of disinfectants. (20 Marks)
- 3.3. List five (05) factors affecting heat sterilization. (20 Marks)
- 3.4. Briefly explain moist heat sterilization method in microbiology. (40 Marks)

4. Write an account on

- 4.1. Superficial mycoses. (50 Marks)
- 4.2. Active acquired immunity. (50 Marks)

5. Outline the mode of transmission and the preventive measures to be taken for the following parasitic diseases:
- 5.1. Toxoplasmosis (25 Marks)
 - 5.2. Amoebiasis (25 Marks)
 - 5.3. Trichomoniasis (25 Marks)
 - 5.4. Malaria (25 Marks)
- 6.
- 6.1. Name five (05) intestinal parasites in human. (25 Marks)
 - 6.2. Name the parasite that causes itching in the anal area in human. (10 Marks)
 - 6.3. Briefly describe the methods used for diagnosis of the infection caused by the parasite mentioned in 6.2. (25 Marks)
 - 6.4. Describe the prevention and control measures for the infections caused By the parasite mentioned in 6.2. (40 Marks)