



UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
FIRST YEAR SECOND SEMESTER EXAMINATION - JULY 2015
PHABMP 1264 BASIC MICROBIOLOGY & PARASITOLOGY

PAPER II

Date: 22.07.2015

Time: 2 hours

ANSWER ALL SIX QUESTIONS.

1.
 - 1.1 Define the terms "Sterilization" and "Disinfection" (10 Marks)
 - 1.2 Describe the principle and handling of autoclave and the uses of autoclave in pharmaceutical microbiology (60 Marks)
 - 1.3 Write notes on sterilization by filtration (30 Marks)

2.
 - 2.1 Name three Gram positive and three Gram negative bacteria (20 Marks)
 - 2.2 Compare the cell walls of Gram positive and Gram negative bacteria (30 Marks)
 - 2.3 Describe briefly the mode of transmission of microbes (50 Marks)

3. Write short notes on
 - 3.1 Culture media for bacteria (40 Marks)
 - 3.2 ELISA (30 Marks)
 - 3.3 Superficial fungal infections (30 Marks)

4.
 - 4.1 List the different mechanisms of action of antibiotics and give two examples for each mechanism (30 Marks)
 - 4.2 Explain the term 'Resistance to antimicrobial agents' (15 Marks)
 - 4.3 Describe briefly the reasons for the emergence of antibiotic resistance in bacteria (30 Marks)
 - 4.4 Describe different mechanisms of antibiotic resistance in bacteria (25 Marks)

Part B

5.

- 5.1 Name the filarial parasite causing lymphatic filariasis in Sri Lanka. **(10 Marks)**
- 5.2 Explain the term periodicity of microfilaria and its importance. **(30 Marks)**
- 5.3 State the main clinical features of the lymphatic filariasis **(30 Marks)**
- 5.4 Outline the prevention and control of the above disease **(30 Marks)**

6. State the causative agent, mode of transmission and the major clinical features of the following parasitic conditions

- 6.1 Ascariasis **(25 Marks)**
- 6.2 Strongyloidiasis **(25 Marks)**
- 6.3 Enterobiasis **(25 Marks)**
- 6.4 Chagas's disease **(25 Marks)**