

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF PHARMACY
FIRST YEAR SECOND SEMESTER BASIC SCIENCES EXAMINATION
FEBRUARY 2014
PHABMP 1205 - BASIC MICROBIOLOGY & PARASITOLOGY
PAPER II

Date: 08.03.2014

Time: 02 hrs

Answer all six questions

1. Write short notes on
 - 1.1 Bacterial growth (30marks)
 - 1.2 Bacterial plasmids (35marks)
 - 1.3 Bacterial spores (35marks)

2.
 - 2.1 Define the term 'selective toxicity' (10marks)
 - 2.2 Name four major beta-lactam antibiotic groups (20marks)
 - 2.3 Describe briefly the mode of action of beta-lactam antibiotics (30marks)
 - 2.4 Discuss briefly how to reduce the development of antibiotic resistance (40marks)

3.
 - 3.1 Name three viruses transmitted by blood (15marks)
 - 3.2 Describe the basic structure of a virus (20marks)
 - 3.3 Explain briefly why there are less number of antivirals than antibiotics (25marks)
 - 3.4 Describe briefly how viruses replicate (40marks)

4. Write notes on
 - 4.1 Innate immune system (30marks)
 - 4.2 Type I hypersensitivity reaction (35marks)
 - 4.3 Active immunization (35marks)

5. State the causative agent, mode of transmission and the major clinical features of the following parasitic conditions.
- 5.1 Trichomoniasis (25marks)
 - 5.2 Cutaneous leishmaniasis (25marks)
 - 5.3 Lymphatic filariasis (25marks)
 - 5.4 Giardiasis (25marks)
6. Briefly describe the prevention and control of the following parasitic diseases in human being.
- 6.1 Scabies (25marks)
 - 6.2 Enterobiasis (25marks)
 - 6.3 Amoebic dysentery (25marks)
 - 6.4 Hook worm infestations (25marks)
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