

UNIVERSITY OF JAFFNA, SRI LANKA
BACELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
SECOND YEAR SECOND SEMESTER EXAMINATION – MARCH 2019
MLSMP 2215 MEDICAL PARASITOLOGY

PAPER II

Date: 11.03.2019

Time: 2 Hours

ANSWER ALL FOUR QUESTIONS

1. A malaria suspected patient was referred to your laboratory by a Medical Officer for the confirmation.
 - 1.1 Outline the procedure of preparing the smear from the above patient. (35 Marks)
 - 1.2 Briefly explain how would confirm whether the patient is infected with *Plasmodium vivax* or *Plasmodium falciparum*. (50 Marks)
 - 1.3 What are the information regarding the above parasite that should be specified in your report while reporting back to the above Medical Officer. (15 marks)

2.
 - 2.1 Name two parasitic skin conditions which can be identified by examining the skin smear prepared from the lesions. (10 Marks)
 - 2.2 Briefly outline the procedure involved in the preparation of the smears to confirm each of the above condition. (40 marks)
 - 2.3 Briefly describe the features of each parasite which will appear under the microscope while examining the above smears. (50 marks)

3. A stool sample collected, shortly within an hour, from a patient suspected of amoebic dysentery was referred to your laboratory.
 - 3.1 Name the different morphological stages of the suspected parasite possible to be identify in the above stool sample. (10 marks)
 - 3.2 Outline the method that you will follow for the microscopic identification of the above stages. (30marks)

3.3 The same patient admitted after several months suspected to have hepatic amoebiasis.

Outline how will you confirm the above condition at the laboratory using the following samples which were referred by the clinician.

3.3.1 blood (30 marks)

3.3.2 abscess aspirate (30 marks)

4. Name the **intestinal nematodes** which can cause the following clinical conditions in human.

4.1 Anaemia (10marks)

4.2 pruritus ani and perineal pruritus (i.e., itching in and around the anus and in the perineal region) (10 marks)

4.3 Briefly outline the sampling method and the laboratory procedure for the confirmation of the conditions mentioned in 4.1 and 4.2. (80 marks)