



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION IN BScHons(MLS)-2021
MLSMP 3144 MEDICAL PARASITOLOGY

Date: 05.06.2023

Time: 2 hours

ANSWER ALL FOUR QUESTIONS

1. A thick and thin blood film obtained from a patient suspected to be having malaria was sent to your laboratory for confirmation.
 - 1.1 Outline the preparatory procedure of thin and thick blood film for the microscopic examination for malaria (30 Marks)
 - 1.2 List the available laboratory diagnostic methods to identify malaria (15 Marks)
 - 1.3 How will you differentiate *Plasmodium vivax* from *Plasmodium falciparum* by observing ring and gametocyte morphology under the microscope (30 Marks)
 - 1.4 Briefly outline the laboratory procedure to quantify and report the malarial parasite using the above smears (25 Marks)

2. Briefly describe the confirmatory diagnosis of the following parasitic disease conditions in the laboratory
 - 2.1 Hook worm infection (35 Marks)
 - 2.2 Pin worm infection (35 Marks)
 - 2.3 Lymphatic filariasis (30 Marks)

3. Amoebiasis is a parasitic disease caused by *Entamoeba histolytica* that results in dysentery in humans.
 - 3.1 List the points to be considered while collecting and transporting the stool sample to the laboratory for the confirmation of amoebic dysentery (25Marks)
 - 3.2 Outline the laboratory procedure to confirm the amoebic dysentery (35 Marks)
 - 3.3 Briefly describe the laboratory procedure to confirm the amoebic liver abscess (40 Marks)

4. Write short notes on

4.1 Immunological methods to diagnose active Toxoplasmosis infection

(30 Marks)

4.2 Wet smear method to confirm Trichomoniasis

(35 Marks)

4.3 Laboratory tests for the confirmation of viper envenomation

(35 Marks)

