00020

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2022/2023 – SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MDU3306 – MEDICAL PARASITOLOGY
FINAL EXAMINATION DURATION: 03 HOURS

DATE: 23rd March 2023 TIME: 01.30 PM – 04.30 PM

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Part B: Structured Essay Questions (40 marks)

Q1.

Medical Laboratory Technician working at National Hospital Colombo has received newly prepared thin and thick blood smears of a patient suspect of having malaria.

1.1 What are the four (04) most common types of malaria parasites? (04 Marks)

i. .....

ii. .....

iii. .....

iv. .....

1.2 State the definitive host and the intermediate host of the malaria parasite. (02 Marks)

i. Definitive host - .....

ii. Intermediate host - .....

1.3 Briefly describe the stages of the erythrocytic cycle of the malaria parasite. (04 Marks)

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(Total 10 marks)

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Q2.

A 28-year-old male from Anuradhapura district presented with a non-healing ulcer on the left lower arm. A slit skin smear (SSS) of the lesion stained with Giemsa showed intracellular parasite with "dot and dash" appearance within macrophages.

2.1. State the causative parasitic agent for the above mentioned condition. (02 Marks)

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2.2 What are the three (03) forms of diseases caused by the parasite mentioned in 2.1?

(03 Marks)

i. .....

ii. .....

iii. .....

2.3 Briefly describe the two (02) main morphological forms found in the life cycle of the parasite mentioned in 2.1

(05 Marks)

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(Total 10 marks)

Q3.

3.1 Name two (02) nematodes that causes infection in the large intestine. (02 Marks)

i. .....

ii. .....

3.2 List three (03) laboratory diagnostic tests used to identify nematode infection.

(03 Marks)

i. .....

ii. .....

iii. .....

3.3 Briefly describe the preventative measures to avoid nematode infections. (05 Marks)

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(Total 10 marks)

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Q4.

4.1 Name three (03) types of infective foodborne trematodes. (03 Marks)

i. .....

ii. .....

iii. .....

4.2 List two (02) laboratory diagnostic tests used to identify foodborne trematodes.

(02 Marks)

i. .....

ii. .....

4.3 Briefly describe the life cycle of foodborne trematodes. (05 Marks)

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(Total 10 marks)

Part C: Essay Questions. (30 marks)

Q1. Briefly describe the laboratory diagnostic methods used for detection of lymphatic filarisis.

(15 Marks)

Q2. Briefly describe the morphological differences of *Balantidium coli* trophozoite and cyst.

(15 Marks)

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