

00009

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2018/2019 – SEMSETER I



BACHELOR OF MEDICAL LABORATORY SCIENCE HONOURS
MLU2241 – PARASITOLOGY & ENTOMOLOGY I
FINAL EXAMINATION

DURATION: THREE HOURS

DATE: 06th MARCH 2019

TIME: 09.30 AM – 12.30 PM

Part B: Structured Essay Questions (40 marks)

Q 1

1.1 Write four (04) pathogenic intestinal protozoa transmitted by faeco - oral route.

- I
- II
- III
- IV.....

(2 marks)

1.2 State four (04) diagnostic tests used for the diagnosis of trichomoniasis.

.....
.....
.....
.....
.....
.....

(4 marks)

1.3 Briefly describe the prevention and control of faeco - orally transmitted infections.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

(4 marks)

(Total – 10 marks)

Q 2

2.1 Name two cestode parasites causing human infections.

I.....

II.....

(2 marks)

2.2 Outline the diagnostic tests that assist in the detection of cestode infections in human.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

(4 marks)

2.3 Describe the morphological features of infective stages mentioned in 2.1.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

(4 marks)

(Total – 10 marks)

Q 3

3.1 Write three (03) factors that influence the geographical distribution and transmission of malaria in the world.

I.....

II

III

(3 marks)

3.2 State the morphological differences of life cycle stages of *Plasmodium vivax* and *Plasmodium falciparum* on a thin blood smear.

.....
.....
.....
.....
.....
.....
.....
.....
.....

(3 marks)

3.3 Describe the techniques available for laboratory diagnosis of malaria

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

(4 marks)

(Total – 10 marks)

Q 4

4.1 Compare the morphological differences of microfilaria stage of *Wucheraria bancrofti* and *Brugia malayi*.

.....
.....
.....
.....
.....
.....
.....
.....

(4 marks)

4.2 Write a brief account on the periodicity of *Wucheraria bancrofti* and its importance in transmission.

.....
.....
.....
.....
.....
.....
.....
.....

(3 marks)

4.3 Briefly describe the different diagnostic tests available for the laboratory diagnosis of lymphatic filariasis in Sri Lanka.

.....
.....
.....
.....
.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(3 marks)

(Total – 10 marks)

Part C: Short Essay Questions (30 marks)**Q 1.**

A student suffering with a diarrhea came into a hospital and explained that the diarrhea is non-bloody but smells very bad. Further, the student told that he has been drinking water from a freshwater spring. The patient appeared malnourished on physical exam. A diarrhea sample revealed two nuclei motile parasites with a tear drop shape and 4 pairs of flagella. The student was given metronidazole.

- 1.1 What could be this parasite? (2 marks)
 - 1.2 State morphological characteristics of different stages of the parasite life cycle mentioned in 1.1 (6 marks)
 - 1.3 Explain the preventive and control measures of the water borne protozoan infections (7 marks)
- (Total – 15 marks)**

Q 2.

- 2.1 Explain soil transmitted helminth infections? (3 marks)
 - 2.2 You have been appointed to assist a team working on reducing soil transmitted helminth infections in an estate community in Sri Lanka. Discuss the strategies and methods used to achieve this goal. (12 marks)
- (Total – 15 marks)**

*****Copyrights reserved*****