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THE OPEN UNIVERSITY OF SRI LANKA
24 SEP 2020
EXAMINATION DIVISION
0068

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2019/2020 – SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS

MDU3306 – MEDICAL PARASITOLOGY

FINAL EXAMINATION DURATION: THREE HOURS

DATE: 24th September 2020 TIME: 1.30 PM – 4.30 PM

INDEX NO: .....

Part B: Structured Essay Questions (40 marks)

Q 1

1.1 Name two (02) pathogenic protozoan parasites inhabiting the large intestine of human. (02 marks)

1. .....
2. .....

1.2 Write four (04) diagnostic tests that can be performed to detect protozoan parasite you mentioned in 1.1. (02 marks)

1. .....
2. .....
3. .....
4. .....

1.3 Give three (03) morphological features that can be used to identify *Giardia* trophozoite? (03 marks)

1. .....
2. .....
3. .....

1.4 Briefly describe three (03) preventive measures of Giardiasis. (03 marks)

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(Total 10 marks)

Q 2

2.1 List four (04) malaria species that can infect human. (02 marks)

1. .....

2. .....

3. .....

4. .....

2.2 List the parasitic stages that can be found in the vertebrate and invertebrate host of the one of the species you mentioned in 2.1. (03 marks)

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INDEX NO: .....

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2.3 Briefly explain the importance of thin and thick blood films in diagnosis of the malaria parasitic organisms mentioned in 2.1. (03 marks)

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2.4 State four (4) prevention and control methods of the disease caused by the parasites you mentioned in 2.1. (02 marks)

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(Total 10 marks)

INDEX NO: .....

Q 3

Transmission of foodborne trematod infection often reflects behavioral and ecological patterns.

3.1 List the parasitic stages of trematodes lifestyle. (02 marks)

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3.2 Name four (04) diagnostic tests available for diagnosis of foodborne trematodes. (02 marks)

1. .....

2. .....

3. .....

4. .....

3.3. Give four (04) differences in the life cycle of *Schistosoma* spp. with other foodborne trematodes. (03 marks)

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3.4 List five (05) measures available for prevention of foodborne trematodiases.

(03 marks)

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(Total 10 marks)

INDEX NO: .....

Q 4

4.1 Outline four (04) morphological features of cestodes that can be used to differentiate them from nematodes and trematodes. (02 marks)

1. .....
2. .....
3. .....
4. .....

4.2 Compare and contrast the morphological characteristics of *Taenia solium* and *Taenia saginata* adult worms. (03 marks)

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4.3 List three (03) tests that could assist in the diagnosis of cysticercosis. (03 marks)

1. .....
2. .....
3. .....
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4.4 List four (04) measures that could be adopted to control *Taenia* infections

(02 marks)

1. .....

2. .....

3. .....

4. .....

(Total 10 marks)

Part C: Essay Questions (30 marks)

Q 1

Describe the life cycle of hookworms. State three features that could be used to differentiate *Strongyloides* larvae from hookworm larvae?

(15 marks)

Q 2

Leishmaniasis is an endemic disease in Sri Lanka. Briefly describe the methods of sample collection and diagnosis of leishmaniasis. **(15 marks)**

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