

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



BACHELOR OF MEDICAL LABORATORY SCIENCE HONOURS

MDU3306 – MEDICAL PARASITOLOGY

FINAL EXAMINATION

DURATION: THREE HOURS

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DATE: 06<sup>th</sup> MARCH 2019

TIME: 09.30 AM – 12.30 PM

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**Part B: Structured Essay Questions (40 marks)**

**Q 1**

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

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

(2 marks)

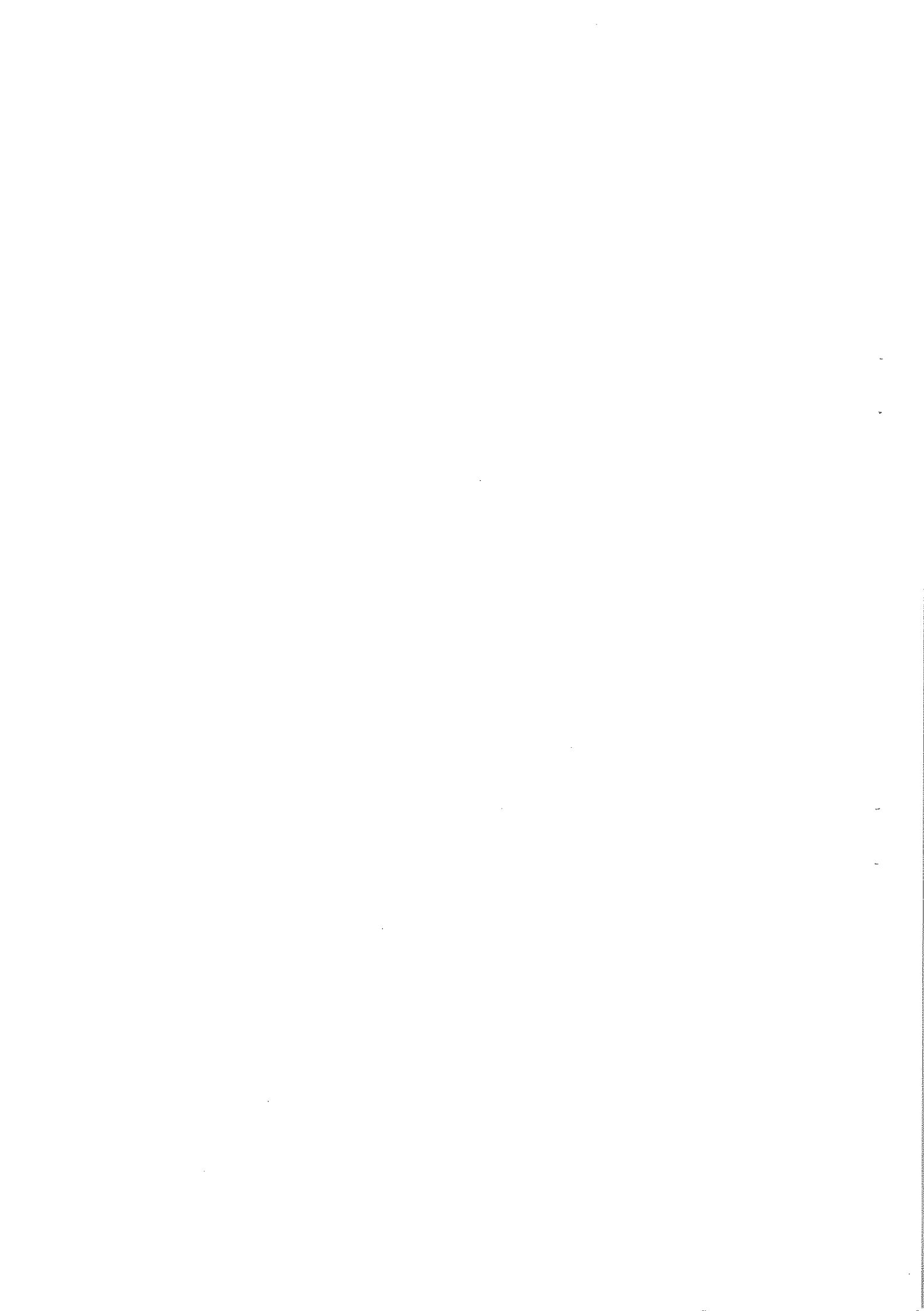
- 1.2 State four (04) diagnostic tests used for the diagnosis of trichomoniasis.

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(4 marks)

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

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**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.

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(4 marks)

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

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(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.

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(3 marks)

- 3.3 Describe the techniques available for laboratory diagnosis of malaria

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(4 marks)

**(Total – 10 marks)**

**Q.4**

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

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(4 marks)

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

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(3 marks)

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

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(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)**

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BACHELOR OF MEDICAL LABORATORY SCIENCE HONOURS  
MDU3306 – MEDICAL PARASITOLOGY

FINAL EXAMINATION

REGISTRATION NO: .....

## ANSWER SHEET FOR PART A

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a	b	c	d
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11. 

a	b	c	d
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12. 

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3. 

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13. 

a	b	c	d
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a	b	c	d
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14. 

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15. 

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16. 

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17. 

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8. 

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18. 

a	b	c	d
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9. 

a	b	c	d
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19. 

a	b	c	d
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10. 

a	b	c	d
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20. 

a	b	c	d
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