



The Open University of Sri Lanka  
Department of Medical Laboratory Sciences



Bachelor of Medical Laboratory Sciences (B.MLS)

MLU2241- Parasitology and Entomology

Semester 01- Academic year 2015/2016

No Book Test 02

*Return the question paper with the answer sheet*

Date: 24.03.2016

Duration – 1 ½ hours

Time: 10.00am - 11.30am

Registration No.....

Please read the following instructions carefully before you answer the paper.  
Question paper consists of 4 Parts. Part A, B, C and D.

Answer ALL questions.

**Part – A (20 marks)**

There are 10 multiple choice questions in this paper, each question with four responses. Select the correct response and mark in the given answer sheet.

**Part - B (30 marks)**

You are given 15 matching questions. Fill in the blanks or draw lines to match the answers.

**Part C (20 marks)**

Structured Essay question. The question contains five parts. Answer the questions in the given spaces.

**Part – D (30 marks)**

You are given 02 short essay questions. Answer in a separate answer book.

**Total marks: 100**

***Good Luck!***

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**Part – B**

**Date: 24.03.2016**

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**Part - B (30 marks)**

**Question No 2:**

2.(a) Match the statements in column A (1-5) with one of the following Arthropods given below. Write your answer in column B.

- P). *Culex* mosquitoes    Q). *Anopheles* mosquitoes    R). *Xenopsylla* sp.  
 S). *Chrysomia*            T). *Pediculus humanus capitis*.

Column A	Column B
1. Gravid collection method	
2. Larva stays parallel to water surface	
3. Will not carry human diseases	
4. Vector of Plague	
5. Assist forensic pathologists to decide the time of death.	

2 (b). Draw only **one line** to match the disease/causative agent in **column A** with **one** specimen listed in **column B**, which could be used for its detection.

Column A	Column B
<i>Disease /causative parasite</i>	<i>Specimen</i>
1 <i>Fasciola hepatica</i> eggs	Adhesive tape smear
2 <i>Wucheraria bancrofti</i> microfilaria	Faeces
3 <i>Schistosoma haematobium</i> eggs	Blood
4 <i>Enterobius</i> eggs	Urine
5 <i>Babesia</i>	CSF

2(c). Match the diagnostic method in **column P** with the type of specimen/s used in **column Q**

<b>Diagnostic method Column P</b>	<b>Specimen used Column Q</b>
1. Concentration techniques	Stool
2. Enzyme immunosorbent Assay	Muscle biopsy
3. Haemocytometer method	Blood
4. QBC technique (Quantitative technique)	Urine
5. Culture technique	living animals

**Part C – Structured essay (20 marks)**

**Question No 3.**

3.1. Name two species of hookworms that infect man.

i.----- ii.-----

3.2. Write the modes of transmission of parasites that you mentioned in 3.1

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3.3. Name different stages of the life cycle of hookworm.

i ----- ii ----- iii ----- iv -----

3.4. Name the infective stage of above mentioned parasites to human.

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3.5. State three (3) sites at which hookworms can be present in humans and the symptoms caused.

Site	Symptoms of the infection
1.	
2.	
3.	

**Part D – Short essay (30 marks) (Use answer books)**

**Question No: 04**

4. a. Write a short essay on the different methods used by insect vectors to transmit infective agents, giving suitable examples.
- b. Write a short essay on adaptations of intestinal parasites for their parasitic mode of life.