

The Open University of Sri Lanka  
Bachelor of Medical Laboratory Sciences (B.MLS)



MLU3144 - Immunology

Semester 01- Academic year 2015/2016

Final Examination

EXAMINATION DIVISION *Return your question paper with the answer sheet*

Date : 30.12.2015

Duration-2 hours

Time: 01.30 p.m -03.30 p.m

Index No.....

**Please read the following instructions carefully before you answer the paper.  
(100 marks)**

**Part – A (30 marks)**

There are 30 multiple choice questions in this paper, each question with five responses. Select the **correct response** and mark in the given answer sheet.

**Part - B (40 marks)**

You are given two structured essay questions. The questions contain five parts. Answer all the questions in given spaces.

**Part – C (30 marks)**

You are given two essay questions. You should answer only one question. Use separate answer sheets to answer the selected question.

**Good Luck!**

**Part B-Structured essay questions (40 marks)**

1. There is a patient in your hospital suffering from primary immunodeficiency. When you check the antibody level in blood, the antibody levels are normal. However, deficiency of immunoglobulins in body secretions and the mucous membranes lining the airways and digestive tract can be seen.

1.1 Identify the deficiency

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(5 marks)

1.2 Give the reasons for your answer in 1.1 above.

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(5 marks)

1.3 Give common symptoms for primary immunodeficiency

i.....  
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ii.....  
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iii.....  
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(3 marks)



2.3 Briefly outline the basis common to all immunoassays

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(5 marks)

2.4 Briefly write the principle behind the ABO blood typing

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(3 marks)

2.5 Explain how the principle mentioned in section 2.4 is used in disease diagnosis

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(4 marks)

**Part C - Essay questions**

Please answer one of the following questions (30 marks)

1. Discuss following statement
  - a) Although AIDS occur due to a viral infection, immune system cannot eliminate the pathogen. (10 marks)
  - b) 100% immunization of a community is not necessary to control the infection. (10 marks)
  - c) Blood/ serum gives a heterogeneous mixture of antibodies against a particular antigen (10 marks)

2. Describe the sequence of events that occur when the skin is damaged by a nail.

(30 marks)

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