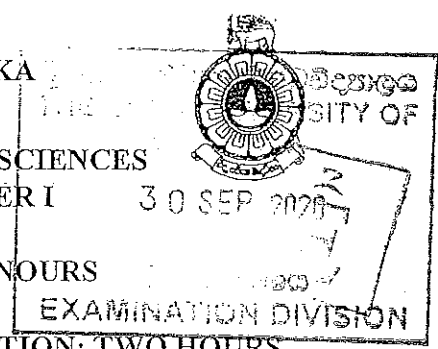


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THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF MEDICAL LABORATORY SCIENCES  
ACADEMIC YEAR 2019/2020 – SEMESTER I



BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
MLU3144 – IMMUNOLOGY  
FINAL EXAMINATION

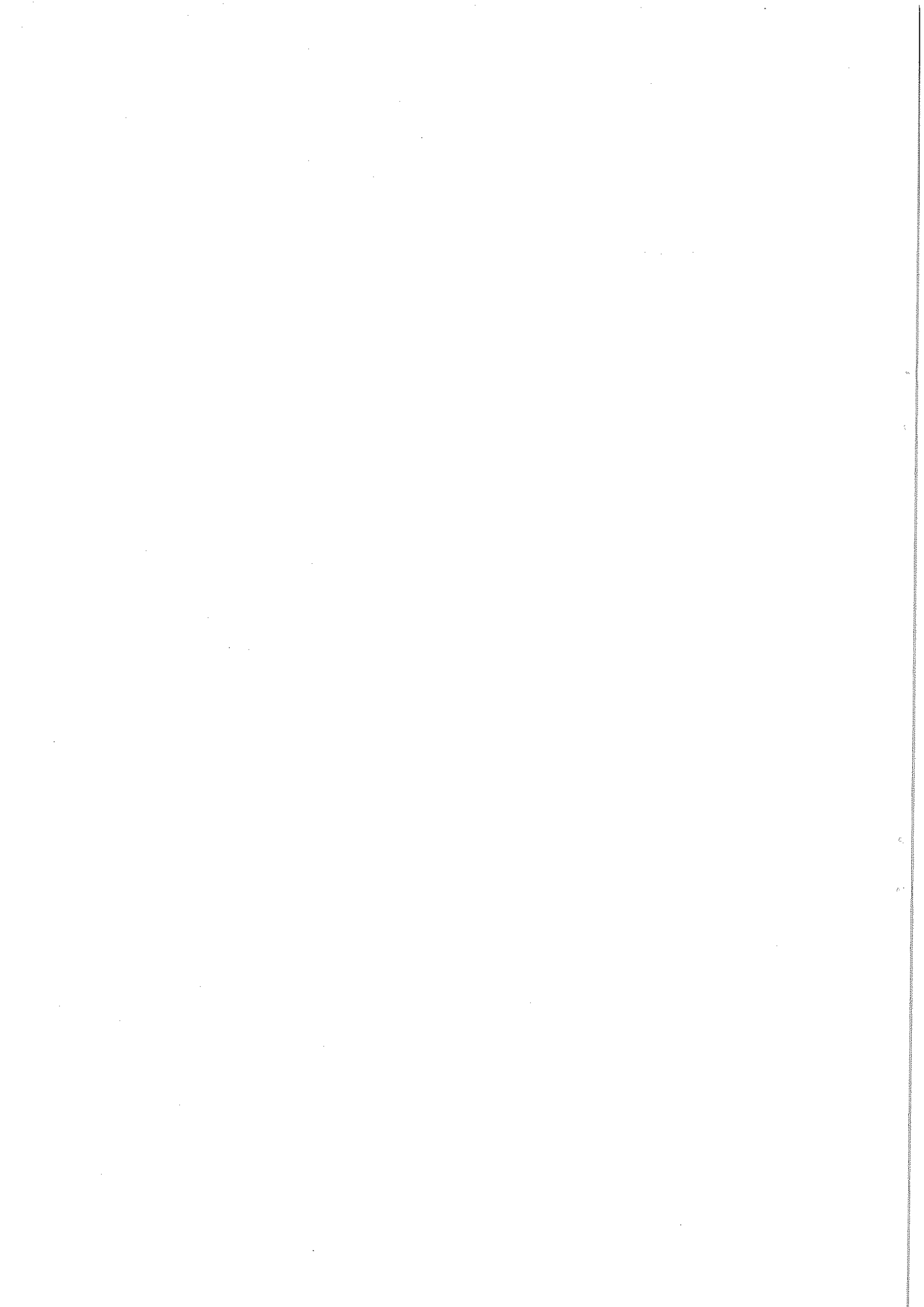
DURATION: TWO HOURS

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DATE: 30<sup>h</sup> September 2020

TIME: 09.30 AM – 11.30 AM

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**Part B Structured Essay Questions (60 marks)**

Q1.

1.1 State two (02) methods used by extra cellular bacteria to avoid phagocytosis.  
(04 Marks)

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

1.2 State four (04) methods used by viruses to evade host immunity.  
(08 Marks)

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1.3 Certain bacteria including *Listeria* and *Mycobacterium tuberculosis* are opsonized normally but avoid intracellular killing using different mechanisms. State four (04) of those mechanisms used by these bacteria  
(08 Marks)

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.....  
.....

Total – 20 Marks

Q2

2.1 State two (02) sources of lymphoid cells. (04 Marks)

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2.2 What does cross reactivity refers to in an antibody? (04 Marks)

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

2.3 Illustrate separation of lymphocyte subpopulations using column based method with magnetic beads. (12 Marks)

Total- 20 Marks

**Q3**

3.1 State three (03) purposes of inflammation. (06 Marks)

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

3.2 Given one (01) example for each of the following defence mechanisms. (06 Marks)

Mechanical barrier.....

Chemical barrier.....

Biological barrier.....

3.3 State four (04) benefits of fever during an infection. (08 Marks)

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Total- 20 Marks

**Part C Essay Question (20 Marks)**

1. Describe five different types of vaccines in use and three important factors that should be considered in order to maintain the effectiveness of a vaccination programme (20 Marks)

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