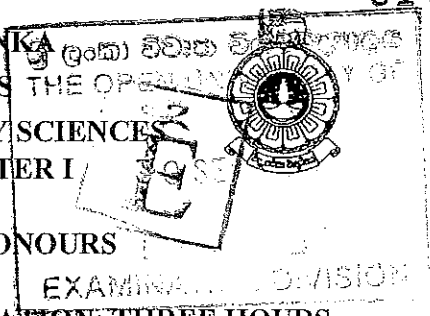


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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2019/2020 – SEMESTER I



BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MDU5303 – IMMUNOLOGY & SEROLOGY
FINAL EXAMINATION

DURATION: THREE HOURS

DATE: 30th September 2020

TIME: 09.30 AM – 12.30 PM



Part B: Structured Essay Questions (40 Marks)

Q1.

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

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

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Total – 10 Marks

Q2

2.1 Define the word "Autograft". (02 Marks)

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2.2. Interpret the cause for infections that occur as a post transplantation complication. (03 Marks)

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2.3 State five (05) tests used to assess the compatibility between the donor and the recipient. (05 Marks)

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Total – 10 Marks

Q3

3.1 State two (02) sources of lymphoid cells. (02 Marks)

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3.2 What does cross reactivity refers to in an antibody? (02 Marks)

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Index number.....

3.3 Illustrate separation of lymphocyte subpopulations using column based method with magnetic beads. (06 Marks)

Total- 10 Marks

Q4

4.1 State three (03) purposes of inflammation. (03 Marks)

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4.2 Given one (01) example for each of the following defence mechanisms. (03 Marks)

Mechanical barrier.....

Chemical barrier.....

Biological barrier.....

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

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Total- 10 Marks

Part C Essay Questions (30 Marks)

1. Describe what is meant by peripheral tolerance and write briefly on different mechanisms of peripheral tolerance. (15 Marks)
2. 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. (15 Marks)

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