

FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA

B.Sc. Medical Laboratory Science Degree Programme

Year End Examination Year 1, 7th Batch- December 2015

Human Biology (MLS1103) – Theory (Structured Essay)

Date: Monday 21st December 2015

Time: 10.15 am -11.15 am

Duration: 1 Hour

Index Number:.....

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Answer one question from PART A and one question from PART B in the spaces given.

PART A- Physiology

1.

1.1 State five factors important in tissue fluid formation?

(10 marks)

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1.2 Write the equation that shows the relationship of these factors in tissue fluid formation. (10 marks)

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1.3 Explain how oedema is developed in;

1.3.1 Patients with heart failure.

(20 marks)

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2.1 Name **three (3)** causes of massive ALT and AST elevations above 1000 IU/L. (10 marks)

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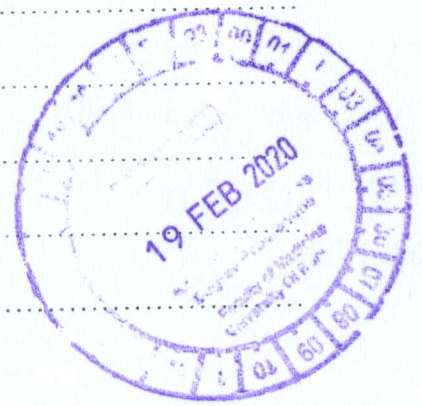
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2.2 Briefly describe the serological abnormalities seen in cholestatic hepatitis. (20 marks)

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2.3 Name **three (3)** blood investigations that will be abnormal in cirrhosis and the expected pattern of abnormality (20 Marks)

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2.4 What is/are the main ion/s responsible for resting membrane potential? (10 marks)

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2.5 Describe briefly ionic movement in action potential.

(15 marks)

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2.6 Describe briefly mechanism in synaptic transmission

(15 marks)

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2.7 After transmission through a synapse, postsynaptic membrane can be excited (move close threshold) or can be inhibited (move away from threshold). How does it make these two different possibilities?

(10 marks)

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