



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA  
Department of Medical Laboratory Science  
Year End Examination, Year 1 - 2017/2018 Batch (11<sup>th</sup> Batch)  
MLS 1103- Human Biology – SEQ

Date: 26.08.2020

Time: 9.45 a.m. - 10.45 a.m.

Duration: 01 hour

Index Number: .....

Part B- Physiology

110

1.

1.1 Name five hormones secreted by the anterior part of the pituitary. (10 marks)

I..... II.....  
III..... IV.....  
V.....

1.2 Describe the role of ADH in maintaining blood volume. (25 marks)

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1.3 List three disorders related to ADH secretion. (10 marks)

I..... II.....  
III.....

1.4 Name five signs and symptoms of Acromegaly. (15 marks)

I..... II.....  
III..... IV.....

V.....

**1.5** Explain why total body  $\text{Na}^+$  concentration is high in conns syndrome? (20 marks)

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**1.6** Explain why TSH concentration is elevated in primary hypothyroidism. (10 marks)

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**2. 2.1** Describe antigens and antibodies of ABO blood grouping system. (20 marks)

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2.2 Describe functions of platelets.

(25 marks)

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109

2.3 Explain the mechanism of oedema in following conditions using Starling forces.

2.3.1. Cirrhosis (20 marks)

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2.3.2. Heart failure (15 marks)

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2.4 Explain the effect of the following on cardiac output:

2.4.1. Duration of diastole

(10 marks)

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2.4.2. Changing posture

(10 marks)

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