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FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
Department of Nursing
1st End Semester Examination – 2021 – 2018/2019 (12th) Batch
NUR 1122 – Physiology I – SEQ

Date: 21st January 2021

Time: 11.15 a.m.-12.45 p.m.

Duration: 1 ½ hours

Index Number:

Answer all the questions.

1.

1.1.

1.1.1. State **two (02)** locations of peripheral chemoreceptors in the body to regulate respiration. (10 marks)

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1.1.2. What is the stimulus for central chemoreceptors? (05 marks)

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1.1.3. Describe how chemoreceptors stimulate respiratory center. (35 marks)

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1.2.

1.2.1. Define left ventricular end diastolic volume. (10 marks)

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1.2.2. Define cardiac output. (10 marks)

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1.2.3. Define excitation-contraction coupling. (10 marks)

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2.

2.1.

2.1.1. List **two (02)** possible regulatory mechanisms to regulate heart. (05 marks)

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2.1.2. List **four (04)** substances which are important for local regulation of blood vessels. (10 marks)

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2.1.3. Describe briefly what are the changes occur in the heart when sympathetic discharge increased to the heart. (15 marks)

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2.1.4. Describe briefly what are the effects on blood vessels when sympathetic discharge increased to the blood vessels. (20 marks)

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2.2.

2.2.1. Define haemostasis. (10 marks)

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2.2.2. Explain the physiological basis for prolonged bleeding following a minor wound in a patient with low platelet count. (20 marks)

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2.2.3. Explain why a patient with chronic liver disease takes long time to arrest bleeding following an injury. (20 marks)

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3.

3.1. State **five (05)** basic functions of Gastro Intestinal Tract. (20 marks)

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3.2. State **five (05)** functions of liver. (20 marks)

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3.3. What is steatorrhea? (10 marks)

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3.4. Briefly describe how cirrhosis leads to steatorrhea. (20 marks)

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3.5. What is gluten sensitivity? (10 marks)

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3.6. What are the types of bacteria colonized in colon? (10 marks)

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3.7. State **two (02)** benefits of bacteria found in colon to the host/human. (10 marks)

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