

UNIVERSITY OF JAFFNA, SRI LANKA
First Year First Semester Examination– 2023
AHSBPH1154 – Basic PhysiologyI

Paper II

Date: 04.12.2023

Time: 2 hours

Answer all the six questions.

1. Briefly explain the physiological basis of edema in:
 - 1.1. Liver failure (50 Marks)
 - 1.2. Lymphatic obstruction (50 Marks)

2. Briefly describe the physiological basis of the following:
 - 2.1. Increased PCV in severe vomiting (30 Marks)
 - 2.2. Increased Clotting time in liver disease. (35 Marks)
 - 2.3. Reduced MCV in iron deficiency (35 Marks)

3. Describe:
 - 3.1. Synaptic transmission (50 Marks)
 - 3.2. Excitation –contraction coupling in skeletal muscle (50 Marks)

4. Briefly explain the physiological basis of the following.
 - 4.1. Patients with uncontrolled diabetes mellitus are always hungry (35Marks)
 - 4.2. Increased body weight in hypothyroidism (35 Marks)
 - 4.3. Central obesity in Cushing syndrome (30 Marks)

5.
 - 5.1. List 5 signs of:
 - 5.1.1. Lower motor neuron lesions (25 Marks)
 - 5.1.2. Cerebellar lesions (25 Marks)
 - 5.2. Describe the transmission of pain sensation from left index finger to primary sensory cortex (50 Marks)

6. Write notes on:
 - 6.1. Perception of sound (50 Marks)
 - 6.2. Receptors in the retina (50 Marks)