



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
First Year Second Semester Basic Sciences Examination – 2020
AHSBPH 1253 – Basic Physiology II
Paper II

Date: 03.10.2020.

Time: 2 hours

Answer all the six questions.

1. Describe:
 - 1.1. Changes occurring in inspiratory air as it flows through upper respiratory tract (50 Marks)
 - 1.2. Changes in pleural pressure during normal respiration (50 Marks)

2. Explain the physiological basis of:
 - 2.1. Heart rate increasing when meeting a higher officer (25 Marks)
 - 2.2. Increase in PR interval in ECG when left vagus is stimulated (25 Marks)
 - 2.3. Increased coronary blood flow in physical exercise (50 Marks)

3. Describe:
 - 3.1. Baroreceptor mechanism of regulation of blood pressure (50 Marks)
 - 3.2. Factors affecting cardiac output (50 Marks)

4. Describe:
 - 4.1. Secretion of acid in stomach (25 Marks)
 - 4.2. Regulation of acid secretion (50 Marks)
 - 4.3. Preventing gastric ulcer (25 Marks)

5. Describe the physiological basis of increased urine flow (diuresis) in:
 - 5.1. Hyperglycaemia (50 Marks)
 - 5.2. Inhibition of sodium absorption in ascending loop of Henle (50 Marks)

6. Explain the physiological basis of:
 - 6.1. Amenorrhoea of pregnancy (50 Marks)
 - 6.2. Menarche (50 Marks)