

UNIVERSITY OF JAFFNA, SRI LANKA
UNIT OF ALLIED HEALTH SCIENCES
FIRST YEAR SECOND SEMESTER – FEB 2018

AHSBPH1253 – Basic Physiology II - Paper II

Date: 27.02.2018.

Time: 2 hours

Answer all the six questions.

1. Describe,
 - 1.1. gas exchange in lungs. (50 Marks)
 - 1.2. regulation of respiration. (50 Marks)

2. Describe,
 - 2.1. spread of impulse in the heart. (40 Marks)
 - 2.2. influence of autonomic nervous system on heart rate. (30 Marks)
 - 2.3. blood supply to left ventricle. (30 Marks)

3. Explain the physiological basis of the following:
 - 3.1. Cardiac output decreases when heart rate goes above 200/minute. (30 Marks)
 - 3.2. Blood flow to liver decreases during physical exercise. (35 Marks)
 - 3.3. Pulse pressure increases in pregnancy. (35 Marks)

4. Describe,
 - 4.1. regulation of secretion of acid in stomach. (50 Marks)
 - 4.2. digestion and absorption of fat in intestine. (50 Marks)

5. Explain the physiological basis of the following:
 - 5.1. Glucose appears in the urine of patients with uncontrolled diabetes. (35 Marks)
 - 5.2. When a person drinks excess amounts of water, urine flow increases. (35 Marks)
 - 5.3. Generalized oedema occurs in diseases affecting glomerulus. (30 Marks)

6. Explain the physiological basis of the following:
 - 6.1. Males with sperm count of 15,000,000/ml are sub fertile. (35 Marks)
 - 6.2. Females taking pills containing progesterone do not ovulate. (35 Marks)
 - 6.3. Growth spurt occurs during puberty. (30 Marks)