

UNIVERSITY OF JAFFNA, SRI LANKA
UNIT OF ALLIED HEALTH SCIENCES

First Year Second Semester Basic Sciences Examination– August 2017
AHSBPH1253 – Basic Physiology II

Paper II

Date: 25.08.2017.

Time: 2 hours

Answer all the six questions.

1. Describe:
 - 1.1. Movement of air into lungs during inspiration and out during expiration (40 Marks)
 - 1.2. Regulation of respiration by chemoreceptors (40 Marks)
 - 1.3. Cough reflex (20 Marks)

2. Describe:
 - 2.1. Spread of impulse in the heart and briefly explain its importance (50 Marks)
 - 2.2. Cardiac output and the factors affecting it (50 Marks)

3. Explain the physiological basis of the following:
 - 3.1. Left heart failure causes difficulty in breathing (30 Marks)
 - 3.2. Blood flow to skeletal muscle increases during physical exercise (40 Marks)
 - 3.3. Heart rate increases in excitement (30 Marks)

4. Describe:
 - 4.1. Deglutition (30 Marks)
 - 4.2. Defecation (40 Marks)
 - 4.3. Effect of bile duct obstruction (30 Marks)

5. Describe the physiological basis of the following:
 - 5.1. Urine volume reduces when a person stops drinking water (30 Marks)
 - 5.2. Patients with un-treated diabetes mellitus will be dehydrated but they pass lot of urine (40 Marks)
 - 5.3. Patients with kidney disease are likely to develop hypertension (30 Marks)

6. Write notes on:
 - 6.1. Testicular function (50 Marks)
 - 6.2. Ovarian function (50 Marks)