

UNIVERSITY OF JAFFNA, SRI LANKA
UNIT OF ALLIED HEALTH SCIENCES

AUG 2016

First Year Second Semester Basic Sciences Examination – ~~November 2014~~
AHSBPH1253 – Basic Physiology II

Paper II

Date: 18.08.2016.

Time: 2 hours

Answer all the six questions.

1. Describe the physiological mechanisms that bring about the changes in respiration in the following situations:
 - 1.1. Physical exercise (40 Marks)
 - 1.2. Pulmonary oedema (30 Marks)
 - 1.3. Renal failure (30 Marks)

2.
 - 2.1. Draw a normal ECG and label it (40 Marks)
 - 2.2. Describe the changes in pressure and the volume in the left ventricle during normal cardiac cycle (60 Marks)

3. Describe:
 - 3.1. Baroreceptor regulation of blood pressure (40 Marks)
 - 3.2. Renal regulation of blood pressure (30 Marks)
 - 3.3. Coronary blood flow and its regulation (30 Marks)

4. Describe:
 - 4.1. Deglutition (swallowing) (50 Marks)
 - 4.2. Defecation (50 Marks)

5. Describe:
 - 5.1. Glomerular filtration (40 Marks)
 - 5.2. Urine output in a patient with blood glucose level of 300 mg/dl (30 Marks)
 - 5.3. Urine output in a patient with ADH resistance (NO parts of the nephron responds to ADH) (30 Marks)

6. Describe:
 - 6.1. Spermatogenesis and factors affecting it (50 Marks)
 - 6.2. Menstrual cycle and its regulation (50 Marks)