

UNIVERSITY OF JAFFNA, SRI LANKA
UNIT OF ALLIED HEALTH SCIENCES
First Year First Semester Basic Sciences Examination– October 2018
AHSBPH1154 – Basic PhysiologyI (New Syllabus)
Paper II

Date: 27.10.18.

Time: 2 hours

Answer all the six questions.

1. Explain the impotence / role of Sodium ion in:
 - 1.1. Extracellular fluid (50 Marks)
 - 1.2. Resting membrane potential (25 Marks)
 - 1.3. Action potential (25 Marks)

2. Write short notes on:
 - 2.1. Blood groups (30 Marks)
 - 2.2. Haemostasis (35 Marks)
 - 2.3. Immunization (35 Marks)

3. Explain the physiological basis of the following:
 - 3.1. Haematocrit may be increased in patients with severe diarrhea (25 Marks)
 - 3.2. Chronic kidney disease causes normocytic anaemia (25 Marks)
 - 3.3. ESR is increased in anaemia (25 Marks)
 - 3.4. Anaphylaxis can cause immediate death if it is wide spread in the body (25 Marks)

4. Describe briefly:
 - 4.1. Biceps jerk (25 Marks)
 - 4.2. Differences between sympathetic and para-sympathetic systems (25 Marks)
 - 4.3. Referred pain (25 Marks)
 - 4.4. Pathway of fine touch from right index finger to primary sensory cortex (25 Marks)

5. Describe briefly:
 - 5.1. REM sleep (25 Marks)
 - 5.2. NREM sleep (25 Marks)
 - 5.3. Rage (25 Marks)
 - 5.4. Hydrocephalus (25 Marks)

6. Explain the Physiological basis of the following:
 - 6.1. Hyperthyroid patients are intolerant to heat (25 Marks)
 - 6.2. Patients with hyperparathyroidism will have renal stones (25 Marks)
 - 6.3. Patients with hyper-adrenalism will have hyperglycaemia (25 Marks)
 - 6.4. Patients with insulin deficiency will have weak muscles (25 Marks)