



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES, MIHINTALE
B.Sc. (General) Degree in Health Promotion
First Year – Semester I Examination – October/November 2014

HPT 1201 – BASIC PHYSIOLOGY

Time: 2 hours

Answer all (04) four questions.

Where appropriate, illustrate your answers with labeled diagrams.

1. (1.1) List **two** functions of each of the following blood component. (30 marks)
 - a. Neutrophil
 - b. Immunoglobins
 - c. Red blood cell
- (1.2) Discuss the specific defense mechanisms of the human body. (30 marks)
- (1.3) Explain the physiological basis of inflammatory changes that take place in the skin after an infection. (40 marks)
2. Define the term **homeostasis** by describing how the blood pressure level regulated in human body. (100 marks)
3. (3.1) Briefly explain the composition of urine of a normal adult. (30 marks)
- (3.2) Explain micturition reflex. (30 marks)
- (3.3) Explain the role of Anti Diuretic Hormone (ADH) and Aldosterone in urine production. (40 marks)

4. (4.1) List the structural components of the human respiratory system and briefly explain the functions of each structure above. (60 marks)

(4.2) Describe how carbon dioxide is transported in the blood. (40 marks)