



**RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Health Promotion
First Year – Semester I Examination – May/June 2016**

HPT 1201 - BASIC PHYSIOLOGY

Time: 2 (two) hours

Answer all four (04) questions.

1. a) Describe the functions of respiratory system. (35 marks)
b) Elaborate how the gas exchange process takes place through the respiratory membrane. (35 marks)
c) Briefly describe the mechanism of breathing. (30 marks)
2. a) Outline the major functions of human blood cells. (60 marks)
b) Discuss the factors that affect blood flow through capillaries. (40 marks)
3. a) Explain what is meant by 'hemispheric lateralization'. (20 marks)
b) Describe a reflex arc using a labeled diagram. (50 marks)
c) Explain why touching or shaking an injured area decreases the pain of the injury. (30 marks)
4. a) Illustrate and label the structure of a nephron. (30 marks)
b) Briefly describe the processes of urine production. (50 marks)
c) Explain the term "Chronic Kidney Disease." (20 marks)