



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (General) Degree in Health Promotion
First Year – Semester I Examination – September/October 2019

HPT 1201 – BASIC PHYSIOLOGY

Time: Two (02) hours

Answer ALL questions.

1. a) Explain the body fluid compartments in the human body. (30 marks)
b) Describe in brief how plasma-interstitial fluid exchange is maintained at the capillary level. (40 marks)
c) Explain how the water balance is maintained by the human body in normal circumstances. (30 marks)
2. a) Describe **two (02)** organ system relationships in the human body. (40 marks)
b) Explain by highlighting the modes the physiology of breathing. (30 marks)
c) Explain how lungs are adopted for the purpose of gas exchange. (30 marks)
3. a) Define the term 'hormone'. (20 marks)
b) Describe the role of Pituitary gland in controlling endocrine functions of the human body. (50 marks)
c) Explain the actions of Thyroxin hormone. (30 marks)

4. a) List the primary functions of the stomach. (20 marks)
- b) Explain the protein digestion in the body. (30 marks)
- c) Discuss the mechanisms of control of pancreatic secretions in the human body. (50 marks)

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