



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

**B.Sc.(General) Degree in Health Promotion
First Year – Semester I Examination – March 2021**

HPT 1201 – BASIC PHYSIOLOGY

Time: Two (02) hours

Answer ALL questions.

1. a) Define the term 'physiology'. (20 marks)
 b) Describe the body fluid compartments of the human body. (40 marks)
 c) Explain the Starling's relationship of pressures within capillaries during normal state. (40 marks)

2. a) Describe the functions of human stomach. (50 marks)
 b) Explain following phenomena in relation to human digestion. (25 marks)
 - i. Pacemaker cells located closer to digestive tract. (25 marks)
 - ii. High concentration of buffers in duodenal secretions. (25 marks)

3. a) Describe the filtration process at the level of glomerulus. (30 marks)
 b) Describe in brief the properties of normal urine. (20 marks)
 c) Explain how blood pressure is controlled by human kidney. (50 marks)

4. a) Explain the main functions of human nervous system. (30 marks)
 b) Discuss in brief the role of cerebral processing centers in the human brain. (30 marks)
 c) Describe the function of the reflex arc. (40 marks)

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