

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

B.Sc. (General) Degree in Health Promotion First Year – Semester I Examination – June/July 2018

HPT 1201 - BASIC PHYSIOLOGY

Time: Two (2) hours

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Answer ALL questions.	
1. a) Describe the role of human blood cells.	(30 marks)
b) Explain the blood clotting process.	(40 marks)
c) Describe briefly, the body fluid compartments.	(30 marks)
2. a) Define the term stroke volume in heart dynamics.	(20 marks)
 Explain how both nerves and hormones control cardiac output under di physiological conditions. 	fferent (50 marks)
c) Describe in brief how blood pressure is generated by the human heart.	(30 marks)
3. a) Explain the stages of swallowing in human digestion.	(30 marks)
b) Explain the major functions of the stomach in the human digestive syste	em. (40 marks)
c) Comment on the role of the pancreas in human digestion.	(30 marks)
4. a) Draw a labeled diagram of a human nephron.	(30 marks)
b) Describe the processes of urine production in the human urinary system.	. (50 marks)
c) Explain briefly what is meant by the glomerular filtration rate (GFR).	(20 marks)