



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

**B.Sc. in Health Promotion  
First Year – Semester I Examination – May 2022**

**HPT 1201 – BASIC PHYSIOLOGY**

**Time: Two (02) hours**

**Answer ALL questions.**

1. a) Explain the role of blood in human body. (50 marks)  
 b) Discuss how the procoagulant (clotting) and anticoagulant (anticoagulation) functions control the blood clotting process in the human body. (50 marks)
2. a) List **five (05)** functions of human liver. (20 marks)  
 b) Describe how food is processed after ingestion in the human digestive system. (30 marks)  
 c) Discuss the role of pancreatic secretions in human digestion. (50 marks)
3. a) Draw a labeled diagram of the respiratory membrane. (20 marks)  
 b) Describe in brief the **three (03)** major stages of respiratory function. (40 marks)  
 c) Explain how carbon dioxide gas (CO<sub>2</sub>) is transported in the human body. (40 marks)
4. a) Draw a labeled diagram of a human nephron. (30 marks)  
 b) Explain the hormonal control of kidney functions. (30 marks)  
 c) Describe the filtration process at the glomerulus level. (40 marks)

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