



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (General) Degree in Health Promotion

First Year – Semester I Examination – September/October 2013

HPT 1201 – BASIC PHYSIOLOGY

Answer all questions

Time: Two (2) hours

Illustrate your answers with labeled diagrams where appropriate

- 01) a) Briefly explain the terms 'blood plasma' and 'serum'. (20 marks)
- b) Name three plasma proteins. (15 marks)
- c) List two major functions for each plasma protein mentioned above (b) (30 marks)
- d) Explain the major steps of hemostasis. (35 marks)
- 02) a) Describe the effects of following hormones.
- a. Insulin (20 marks)
- b. Thyroxin (20 marks)
- b) Discuss the role of the pituitary gland in controlling hormonal actions of human body. (60 marks)
- 03) a) Discuss the role of small intestine in digestion and absorption. (50 marks)
- b) Explain the major digestive functions of human liver. (50 marks)
- 04) a) Draw a labeled diagram of a Neuron. (20 marks)
- b) Explain what is meant by 'Hemispheric Lateralization'. (30 marks)
- c) Using an appropriate example describe the 'reflex arc'. (50 marks)