ESTERN UNIVERSITY, SRI LANKA

LIBRA

23.

FIRST YEAR, SECOND SEMESTER EXAMINATION IN AGRICULTURE 2008/2009 2009 Carrenty, Sel Me

ACH 1201-BIOCHEMISTRY

Time: 2 Hours **Answer all Questions**

- 1. a) Discuss the functions of carbohydrate in human body.
 - b) How does the change of an amino acid molecule vary with the change in pH of the medium?
 - c) Describe the primary, secondary and tertiary structures of protein, what are the forces which stabilize them?
- 2. a) Define the term "vitamins"
 - b) Describe the sources, biochemical functions and deficiency symptoms of water soluble vitamins.
 - c) Name any five macro minerals and give their sources, functions and signs of deficiency.
- a) Describe the process of glycolysis. Explain how many molecules of ATP are . 3. formed in aerobic condition
 - b) Enumerate the major steps of synthesis of cholesterol. Name the rate limiting steps of cholesterol.
- a) Write brief account on "Urea cycle". 4.
 - b) Explain the steps involved in the oxidation of palmitic acid and give the total ATP yield of the process.