

**EASTERN UNIVERSITY, SRI LANKA**  
**FIRST YEAR, SECOND SEMESTER EXAMINATION IN AGRICULTURE-2005/2006**  
**ACH 1201- BIOCHEMISTRY (3:30/30)**  
**END SEMESTER EXAMINATION**

**Time : 2 Hours.**

**This paper should be answered in English.**

**Answer all questions.**

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1. Explain the structures of the following:

- a) Haworth Perspective Formulas of  $\alpha$  and  $\beta$  form of Glucose.
- b) Phospholipid and Glycolipid.
- c) Tertiary Structure of Protein.
- d) Sucrose and Lactose.

2. Compare and Contrast the following:

- a. Anabolism and Catabolism.
- b. Glycolysis and Gluconeogenesis.
- c. Glycogenesis and Glycogenolysis.
- d. Glucogenic and Ketogenic Amino Acids.

3. a) Write a brief account on "TCA cycle".

b) Illustrate the Urea Cycle and state its importance in human.

4. Write short notes on the following :

- a) Electron Transport System.
- b)  $\beta$  Oxidation.
- c) Essential Amino Acids.
- d) Ketosis.

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