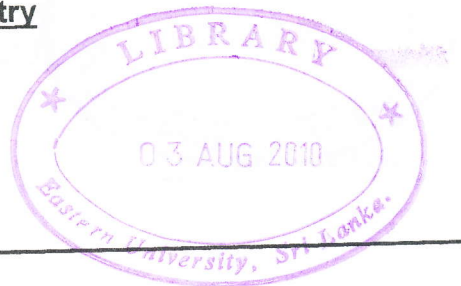


Eastern University, Sri Lanka,

First Year, Second Semester Examination In Agriculture – 2006/2007

ACH 1201 - Bio Chemistry

External Degree



Answer all Questions  
Time allowed: 02 hours

1.
  - a) Outline the catabolic pathway of palmitic acid ( $C_{15}H_{31}COOH$ ) to acetyl co-enzyme A.
  - b) What would be the total number of ATP molecules generated from one molecule of Palmitic acid if all the acetyl coenzyme A generated was oxidized via the tri carboxylic acid (TCA) cycle? (Explain all your calculations).
  
2. Explain the following:
  - a) Glycolytic end product pyruvate has different fates in the living cells.
  - b) Formation of urea in Ureotelic animals
  
3.
  - a) Outline the Citric acid (TCA) cycle.
  - b) Explain how the TCA cycle is linked to the catabolism of proteins.
  
4. Write short notes on the following:
  - a) Storage polysaccharides
  - b) Gluconeogenesis
  - c) Lipids in cells

\*\*\*\*\*