Eastern University, Sri Lanka,

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

ACH 1201 - Bio Chemistry

External Degree

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e allowed: 02 hours

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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 ploysaccharides
   b) Gluconeogenesis
   c) Lipids in cells

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