Eastern University, Sri Lanka,

First Year, Second Semester Examination In Agriculture - 2010 / 2011

ACH 1201: Biochemistry (Repeat)

BRARY

110 JUN 2013

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Answer all Questions Time allowed: 02 hours

- 1. a) Outline the catabolic pathway of Palmitic acid (C₁₅H₃₁COOH) 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) Fate of Pyruvate in the living cells.
 - b) Formation of urea in human beings
- 3. a) Outline the Citric acid (TCA) cycle.
 - b) Explain how the Pentose Phosphate Pathway can supply ribose-5-phosphate for the synthesis of RNA.
- 4. Write a brief account on the following:
 - a) Polysaccharides in plants
 - b) Glycolysis
 - c) Lipids in cells
