Eastern University, Sri Lanka

1.1. OCT 2014

First Year, Second Semester Examination In Agriculture - 2011/2012

ACH 1201 - Biochemistry (3: 30/30)

External Degree (Repeat)

nswer all Questions

ime allowed: 02 hours

- a) Outline the catabolic pathway whereby the Palmitic acid (C₁₅ H₃₁COOH) is converted to acetyl coenzyme A.
 - b) Give a balance sheet equation indicating the number of ATP molecules generated when one molecule of palmitic acid is completely oxidized to carbon dioxide.

 (Explain all your calculations).
- 2. Explain the following:
 - a) Structures of proteins
 - b) Formation of urea in human.
- 3. a) Outline how the Pentose Phosphate Pathway can supply ribose-5-phosphate for the synthesis of RNA.
 - b) Outline the Citric acid (TCA) cycle.
- 4. Write a brief account on the following:
 - a) Polysaccharides in plants
 - b) Glycolysis
 - c) Lipids in cells