## EASTERN UNIVERSITY, SRI LANKA

## SECOND EXAMINATION IN SCIENCE 2008/2009 (June/July 2011)

EXTERNAL DEGREE, SECOND SEMESTER (Proper & Repeat)

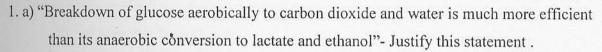
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Segiern University

**EXT BT 203 PLANT BIOCHEMISTRY** 

Time: 02 hours

**Answer all Questions** 



- b) Briefly discuss the regulatory mechanism of the following biochemical pathways;
  - i) Fatty acid biosynthesis
  - ii) Entry of glucose to glycolytic sequence
- 2. a) Outline the pathway of Tri Carboxylic Acid (TCA) cycle.
  - b) What is transamination reaction? Giving examples, explain its role in the synthesis of amino acids.
- 3. Distinguish the following pairs:
  - a) Glycolysis and Gluconeogenesis
  - b) Competitive and non-competitive enzyme inhibitors in cells
- 4. Write a brief account on any <u>TWO</u> of the following:
  - a) Lipids in plant cells
  - b) Oxidative Phosphorylation
  - c) Protein digestion and absorption

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