

THE OPEN UNIVERSITY OF TANZANIA

FACULTY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL STUDIES

OBT 252: PLANT BIOCHEMISTRY AND METABOLISM

ASSIGNMENT II-2008

INSTRUCTIONS:

- Read all questions carefully before answering
 - Answer ALL questions and wherever appropriate, include diagrams, sketches and indicate the reference sources you consulted.
 - Write your name, registration number, contact postal and email addresses, and phone number.
 - Please write legibly.
 - Should be submitted by 27th March 2009
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1. (a). Describe the process of starch degradation up to the stage where 2 three carbon sugar molecules are formed from a breakdown of a single 6 carbon sugar molecule.

(b). How does pyruvic acid produced during glycolysis react in the presence of Oxygen? Explain.
2. Describe the processes by which Nitrogen exchange takes place between soils and plants.
3. Discuss triose phosphate in plant metabolism.
4. (a). Define Photosynthesis.

(b). Describe the process of non-cyclic photophosphorylation in plants.