

Eastern University, Sri Lanka  
External Degree Programme  
Second Year Examination in Science-1996/97  
(June/August, 2004) (Re-repeat)



EXBT 307, Plant Biochemistry

Answer **FOUR** questions only

Time: 02 hrs

1. Give a brief account on the following:
  - (a) Carbohydrates.
  - (b) Oxidative phosphorylation.
2. (a) Outline the Pentose Phosphate Pathway (ppp).
  - (b) Explain its significance in plant metabolism.
3. Write short notes on the following:
  - (a)  $\beta$  - Oxidation of fattyacids.
  - (b) Glycolysis.
4. (a) Outline the Biosynthetic pathway of fatty acids.
  - (b) Give a balance sheet energy involve in the oxidation of **Palmitic acid**.
5. Write short notes on the following:
  - (a) Lipids.
  - (b) Citric acid cycle.
6. (a) Explain how urea is formed in ureolytic animals.
  - (b) Describe the **glyoxylate** pathway.