

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

EXTBT 307, Plant Biochemistry

Answer FIVE questions only

Time: 03 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) β - Oxidation of fatty acids.
 - (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.
7. Write an account on the following:
 - (a) Catabolism of amino acid.
 - (b) Gluconeogenesis.
8. What is transamination reaction? Giving example, and explain their role in the synthesis of amino acids.