

Eastern University, Sri Lanka

Third Year First Semester Examination in Science 2003/2004
(November/December, 2004) (Proper/Repeat)

BT 303, Plant Biochemistry

Answer All Questions

Time: 02 hrs

1. Write a brief description on
 - a) Biological carriers
 - b) Synthesis and degradation of sucrose

2. (a) Out line the catabolic pathway of **Palmitoleoyl CoA** (C_{16} - Cis Δ^9 HexadecenoylCoA)
(b) How many ATP molecules will be generated in the catabolism of one molecule of **Pamitoleoyl CoA**.

3. Explain,
 - (a) How tricarboxylic acid cycle link with the catabolism of protein
 - (b) The value of plant secondary compounds.

4. Distinguish the following pairs
 - (a) Glycolysis and Gluconeogenesis
 - (b) Protein synthesis in prokaryotes and Protein synthesis in Eukaryotes