

EASTERN UNIVERSITY, SRI-LANKA

THIRD YEAR FIRST SEMESTER EXAMINATION IN SCIENCE -2002/2003
(June/July 2003)

BT-303, PLANT BIOCHEMISTRY

Answer All Questions

Time: 02 hours

- 1) (a) Define the term "Enzyme" and briefly describe the enzyme kinetics using Michaelis Menten model.
(b) Briefly explain the term "Enzyme inhibition".
- 2) (a) Outline the biosynthetic pathway of fatty acids.
(b) Give a balance sheet for energy involved in the synthesis of stearic acid (C_{18}).
- 3) (a) Briefly explain the citric acid cycle.
(b) Outline the role of Glycolysis and Kreb's cycle in the formation of compounds essential for cellular activities.
- 4) Give a brief account on protein synthesis in prokaryotes and explain how it differs from protein synthesis in eukaryotes.