

EASTERN UNIVERSITY, SRI LANKA
SECOND EXAMINATION IN SCIENCE - 1994/95 & 95/96; Sept. 1997

Z1. 202 Principles of Ecology

Time : 02 hours

Answer FOUR questions only

Illustrate your answers with clear labelled diagrams where necessary

01. Explain the following terms with reference to Ecology
 - a) Carrying capacity
 - b) Ecosystem
 - c) Food chain and Food web

02.
 - a) Explain why nutrients must be cycled in an ecosystem.
 - b) Describe the carbon cycle.

03. Discuss the economic significance of the mangrove ecosystem.

04. Write short notes on any THREE of the following:
 - a) Biomagnification (Bioaccumulation).
 - b) Eutrophication.
 - c) Deforestation and its effects.
 - d) Air pollution.

05.
 - a) Describe the types of pollution in the Batticaloa district.
 - b) As an environmentally friendly ecologist list the ways in which waste products can be converted into useful substances.

06.
 - a) Discuss the control methods for aquatic weeds.
 - b) Indicate the advantages and disadvantages of the methods discussed.