Open University of Sri Lanka
Post graduate Diploma in Environmental Science
Academic year 2011/2012
Final Examination
Course title — Understanding the Environment.
Course code — NEP1301



Date - 31st March 2012

Time -9.30 am -12.30 pm

Answer any four (4) questions.

- 1. a) Describe the basic structure and composition of ecosystems.
 - b) Compare a tropical forest ecosystem and a paddy field ecosystem in terms of species richness, species dominance, food and feeding relationships, inputs and outputs to the ecosystem, and ecosystem stability.
- 2. a) Describe in detail the constituents of moist air.
 - b) Explain the structure of the atmosphere based on temperature and pressure variations.
 - c) Name and describe two global environmental problems associated with the atmosphere.
- 3. a) List the basic features of nutrient cycles.
 - b) Explain the natural processes that maintain nitrate ions (NO₃⁻) in soil.
- 4. Write an essay on Natural Disasters.
- 5. a) What is ecological succession?
 - b) Describe how biological structure of communities and community energetic change during ecological succession.
- 6. a) Explain the physical properties of freshwater.
 - b) Compare lentic water habitats and lotic water habitats with respect to distribution and abundance of living organisms.