THE OPEN UNIVERSITY OF SRI LANKA POST GRADUATE DIPLOMA IN ENVIRONMENTAL SCIENCE LEVEL - VI FINAL EXAMINATION - 2014 NEP1202 - ENVIRONMENTAL ECONOMICS AND MANAGEMENT DURATION- THREE (03) HOURS



Date: 22nd March 2014 Time: 9.30 a.m. - 12.30 p.m.

Answer four (04) questions only. Each question carries 25 marks.

- 1. The Government of Sri Lanka has decided to monitor and control air pollution levels caused by motor vehicles in the city limits of Colombo. Examine this decision in terms of
 - a. Opportunity cost for individuals
 - b. Production possibilities frontier for the economy
- 2. "Economists explain environmental degradation in terms of market failure" Explain.
- 3. "The demand for a good or service is influenced by many factors. However, a change in quantity demanded occurs on account of one of them" Explain with suitable examples.
- 4. "Boulding (1966) emphasised the need to consider earth as a closed economic system where the economy and environment are not characterized by linear interlinkages, but by a circular relationship" Explain.
- 5. a) Outline the reasons for valuing the environment?
 - b) Distinguish "willingness to pay" (WTP) from "willingness to accept" (WTA).
 - c) What are the limitations of the Contingent Valuation Method" (CVM).
- 6. a) Briefly discuss the various steps in Cost Benefit Analysis (CBA)
 - b) Define and explain the concepts of Net Present Value (NPV), Benefit-Cost Ratio (BCR) and Internal Rate of Return (IRR)
- 7. Write Short notes on three (03) of the following.
 - a) Law of diminishing returns and technical progress
 - b) Ecology and thermodynamics
 - c) Renewable resources and non-renewable resources
 - d) Sustainable income and natural resource accounting
 - e) Pollution charge and subsidy

*****Copyrights Reserved*****