

**The Open University of Sri Lanka**  
**M.Sc. in Environmental Science -Level 07/06**  
**Final Examination - 2016**  
**NEP 1209/1203 - Environmental Pollution**



**Duration – Three (03) hours**

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**Date: 13<sup>th</sup> November 2016**

**Time: 9.30a.m.– 12.30p.m.**

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Answer **any four (04)** questions.

1. a. Distinguish between photochemical smog and Industrial smog.  
b. Briefly state three(03) chronic human health effects due to Carbon Monoxide(CO).  
c. Explain how Nitrous Oxide( $\text{NO}_x$ ) and Ozone ( $\text{O}_3$ ) affect on biotic and abiotic components of the environment.
2. a. What do you mean by “water pollution”?  
b. Write an account on water quality indicators.
3. a. Define the term “Land Degradation”.  
b. List five(05) major causes for land degradation.  
c. “The rate and magnitude of soil erosion by water are controlled by many factors”.  
Elaborate on this statement.
4. a. What is the main objective of secondary treatment process of wastewater treatment?  
b. Outline the methods used in secondary treatment of wastewater.
5. a. What is the function of activated C in treating hazardous waste?  
b. Giving examples, explain how microorganisms can be used to manage hazardous waste.  
c. Discuss the methods being practiced to dispose hazardous waste.
6. Write short notes on **any three(03)** of the following.
  - a. Disinfection in municipal water treatment for domestic use
  - b. Role of organic matter in improving soil productivity
  - c. Control of wind erosion
  - d. Emission control technologies in gasoline engines