

The Open University of Sri Lanka
Centre for Environmental Studies and Sustainable Development
M.Sc. in Environmental Science -Level 09
Final Examination - 2018
BYP9503/NEP1209 - Environmental Pollution



Duration – Three (03) hours

Date: 25th November 2018

Time: 9.30a.m.– 12.30p.m.

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

1. a. Distinguish between photochemical smog and industrial smog.
 b. Write an account on effects of air pollutants on plants.
2. Discuss the impacts of the following anthropogenic activities on aquatic environment.
 - i. Change of land use patterns
 - ii. Domestic waste and sewage
 - iii. Ground water contamination by Arsenic (As)
 - iv. Hot water effluents
3. With the help of your knowledge on land degradation, explain the highlighted issues with suitable examples in the paragraph given below.

Land pollution is the degradation of earth's land surfaces often caused by **human activities and its misuse**. Haphazard disposal of **urban and industrial wastes, exploitation of minerals, and improper use of soil by inadequate agricultural practices** are a few of the contributing factors. Also, increasing **urbanization, industrialization, and other demands on the environment and its resources** are of great consequence to many countries.

4. Explain the steps practiced in treating water for domestic use indicating the significance of each step.
5. a. What is composting?
 b. What are the benefits of a successful composting program?
 c. What are the different types of composting systems that have implemented by municipalities?
 d. What steps can be taken to ensure high quality compost production?
6. Write short notes on **any three (03)** of the following.
 - a. Radioactive waste management
 - b. Chemical and physical treatment of hazardous waste
 - c. Emission control technologies in gasoline engines
 - d. Biological indicators of water quality