



The Open University of Sri Lanka  
M.Sc. in Environmental Science -Level 09  
Final Examination – 2018/2019  
BYP9503/NEP1209 - Environmental Pollution

Duration – Three (03) hours

Date: 15<sup>th</sup> February 2020

Time:9.30 a.m. – 12.30 p.m.

Answer any four (04) questions.

1.
  - a. What is meant by “greenhouse gases”?
  - b. How do the effects of greenhouse gases change the climate?
  - c. Explain briefly the chronic effects of three (03) greenhouse gases on human and plant health.
  
2.
  - a. Distinguish between bioaccumulation and bio magnification.
  - b. With suitable examples, discuss the impacts/problems of infectious agents and toxic organic substances in water pollution.
  - c. “Parasitic infections also can spread through water”. Justify this statement with reference to suitable examples.
  
3.
  - a. What is land degradation?
  - b. Briefly explain the impacts of five (05) direct causes of land degradation.
  - c. State briefly how soil erosion can be measured.
  - d. “Soil erosion control is based on four principles”. Elaborate this statement with the help of suitable methods being practiced.
  
4.
  - a. With the help of a flow diagram, indicate the major steps involved in treating water for drinking purpose.
  - b. Explain the different types of filters used to filter treated water for drinking and how they function.
  - c. What are the main objectives of the internal treatment of water for industry use?
  
5. Write an account on control of particulate matter and gaseous emissions from industries.
  
6. Write short notes on any three (03) of the following.
  - a. Effects of heavy metals on aquatic biota
  - b. Techniques used for effective aerobic composting
  - c. Activated Carbon adsorption in treating hazardous waste
  - d. Use of micro algae in treating wastewater