



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
OCTOBER, 2019_2 EXAMINATIONS

COURSE CODE: ESM317

COURSE TITLE: Land and Water Pollution

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

- 1a). State briefly sources of solid waste (2marks)
1b). What is recycling? (3 marks)
1c). Outline the causes of land pollution (2 marks)
1d). Highlight the effects of land pollution (3 marks)
 (ii). How can land pollution be controlled (3 marks)
 (iii). Explain hazardous effects of wastes (3marks)
1e. (i) How can hazardous wastes be curtailed (4 marks)
 (ii) What are causes of deforestation (3 marks)
1f). State the implications of vegetation degradation (2 marks)
- 2a. Define the term nuclear waste (2marks)
2b. Mention the reasons for recycling (3marks)
2c. Outline the essence of renewable and non renewable resources (4marks)
2d. What is biodiversity conservation (2marks)
2e. Discuss the importance of forest conservation (4 marks)
- 3a. Describe the problems of plastic recycling (2 marks)
3b. Explain the formation of pulp (3marks)
3c. State the effects of secondary pollutants (4marks)
3d. Describe heavy metals as pollutants (2marks)
3e. State the implication of sediments (4marks)
- 4a. How can human beings benefit from biodiversity conservation (2marks)
4b. Define nutrient pollution (3marks)
4c. What are the effects of Atrazine (4marks)
4d. State the effects of acid mine drainage (2marks)
4e. Explain thermal pollution (4marks)
- 5a. Marine debris may be defined as? (2marks)
5b. State the effects of global warming (3marks)

5c. Highlight ways in which water pollution can be controlled

(4marks)

5d. List the ways in which land pollution can occur

(2marks)

5e. Enumerate on the concept of the ozone layer

(4marks)