



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**SEPTEMBER, 2020\_1 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) Define the term solid waste (2 marks)
- 1b) What is recycling? (3 marks)
- 1c) Itemize causes of land pollution (2 marks)
- 1d) i Effects of land pollution cannot be overemphasized, Discuss (3 marks)  
ii State ways land pollution can be controlled (3 marks)  
iii Write briefly negative effects of wastes (3 marks)
- 1e) i explain how hazardous effects of wastes can be controlled (4 marks)  
ii What are the causes of deforestation (3 marks)
- 1f) Write briefly the implications of degrading vegetation (2 marks)
- 2a) what is deforestation? (2 marks)
- 2b) Explain causes of deforestation (3 marks)
- 2c) State the implication of deforestation on vegetation degradation (4 marks)
- 2d) Enumerate the essence of organic matter (2 marks)
- 2e) Give examples of air pollution (4 marks)
- 3a) What is nuclear waste? (2 marks)
- 3b) State the reasons for recycling (3 marks)
- 3c) What are the importance of renewable and non renewable resources? (4 marks)
- 3d) What is biodiversity conservation? (2 marks)
- 3e) State the essence of forest conservation (4 marks)
- 4 (a) what is marine debris? (2 marks)
- (b) Enumerate negative effects of global warming (3 marks)
- (c) State how water pollution can be controlled (4 marks)
- (d) List ways how land pollution can occur (2 marks)
- (e) Explain the concept of ozone layer (4 marks)
- 5a) what is nutrient pollution? (2 marks)
- 5b) State the occurrence of chemical contamination (3marks)
- 5c) What are the effects of chemical pollution? (3marks)
- 5d) Define the term Atrazine (2marks)
- 5e) Enumerate the effect of acid mine drainage (4marks)