



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2025_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.

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| 1a. Expatriate on the term pollution | (8 marks) |
| b. List four factors according to modern ecologist that are responsible for pollution | (4marks) |
| c. Outline (2) primary and (3) secondary effects of pollution | (5 marks) |
| d. List three (3) examples of non-biodegradable pollutants | (4 marks) |
| e. List four (4) impacts of pollutants | (4 marks) |
| 2a. Describe point source water pollutants | (3 marks) |
| b. Outline any two classification of water pollution | (3 marks) |
| c. State three (3) impact of mercury on human health | (3 marks) |
| d. Outline the major sources of water pollution | (3 marks) |
| e. Describe in one paragraph the implication of the estimated global water supply | (3 marks) |
| 3a. Land pollution is a common and destructive phenomenon discuss | (3 marks) |
| b. What are the sources of solid waste that can cause land pollution? | (3 marks) |
| c. List effects of unhealthy soil management methods | (3 marks) |
| d. Explain how industrial activities is a cause of land pollution | (3 marks) |
| e. List five (5) effects of land pollution | (3 marks) |
| 4a. What is hazardous waste? | (3 marks) |
| b. Write short notes; | (3 marks) |
| i. Industrial activities | (3 marks) |
| ii. Agricultural activities | (3 marks) |
| c. List three (3) effects of hazardous waste on water | (3 marks) |

- d. Define source reduction **(3 marks)**
- e. Mention four (4) sources of household waste. **(3 marks)**
- 5a. What is deforestation? **(3 marks)**
- b. Defines the following terms in the context of deforestation **(3 marks)**
 - i. Urban growth **(3 marks)**
 - ii. Agricultural practices **(3 marks)**
- c. Describe the effects of deforestation on soil erosion **(3 marks)**
- d. List two methods of controlling deforestation **(3 marks)**
- e. List the types of forest we have in Nigeria **(3 marks)**