



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**2025\_2 EXAMINATIONS**

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**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. 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)**