



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2024_2 EXAMINATION

COURSE CODE: ESM317

COURSE TITLE: Land and Water Pollution

CREDIT: 2 Units

TIME ALLOWED: 2:30 Minutes

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. Explain the concept of recycling (8 marks)
- b. Outlines the two major types of recycling (4 marks)
- c. List five (5) types of resource conservation (5 marks)
- d. Outline five (5) relevance of resource conservation (4 marks)
- e. Give five (5) challenges of resource conservation in Nigeria (4 marks)
- 2a. Describe in two paragraphs on the environmental tragedy of the mid-20th century (3 marks)
- b. Differentiate between point source and non-point source of water pollutants (3 marks)
- c. Comment on the term pesticides and herbicides (3 marks)
- d. List the major types of pollutants (3 marks)
- e. Outline five effects of water borne diseases (3 marks)
- 3a. Expatiate on the impact of land pollution on global warming (3 marks)
- b. List two long term consequences of land pollution (3 marks)
- c. Write short notes on; (3 marks)
 - i. Solid waste
 - ii. Soil pollution
- d. List five (5) sources of land pollution (3 marks)
- e. Expatiate on the concept of 'environmental stewardship' (3 marks)
- 4a. Give a distinctive definition of industrial waste. (3 marks)
- b. Outline three (3) measures of hazardous waste control. (3 marks)
- c. List 3 three sources of hazardous waste (3 marks)
- d. Define Incineration (3 marks)

- e. List four (4) effects of industrial waste to the environment **(3 marks)**
- 5a. Explain the concept of afforestation? **(3 marks)**
- b. State two (2) examples of afforestation program in Nigeria **(3 marks)**
- c. List five (5) factors affect afforestation in Nigeria **(3 marks)**
- d. Outline three (3) major causes of deforestation **(3 marks)**
- e. Comment on the following terms as they affect deforestation; **(3 marks)**
 - i. Flooding
 - ii. Drought