



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2024 1 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. Outline with specific scenarios the major types of pollution (8 marks)
- b. Differentiate between the ecosystem classification pollutants (4 marks)
- c. Give three impacts of pollution on human beings (5 marks)
- d. Explain in one paragraph the relevance of recycling in resource management. (4 marks)
- e. What is forest resource conservation? (4 marks)
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- 2a. What is water pollution? (3 marks)
- b. Write short notes on (3 marks)
- i. Point source pollutants
- ii. Nonpoint source pollutants
- c. Comment on the following; (3 marks)
- i. Municipal water pollution
- ii. Industrial water pollution
- d. Expatriate on biological water pollutants (3 marks)
- e. Comment on the first major international conference on environmental issues. (3 marks)
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- 3a. Describe in two paragraphs biological factors that cause land pollution (3 marks)
- b. X-ray land pollution remediation process (3 marks)
- c. Reference two international efforts on land pollution (3 marks)
- d. Mention two effects of soil pollution (3 marks)
- e. Define; (3 marks)
- i. Ashes
- ii. Garbage's
- iii. Sewage treatment
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- 4a. Write short notes; (3 marks)
- i. Landfills
- ii. Dumpsites
- iii. Pyrolysis
- b. Define surface impoundment. (3 marks)
- c. Describe the three major types of waste treatment (3 marks)
- d. Expatriate on the concept of Solidification as a waste treatment (3 marks)
- e. List two (2) effects of poor waste management on land. (3 marks)

- 5a. Define biodiversity loss
- b. List two drivers of biodiversity loss
- c. Mention two effects of biodiversity loss
- d. Define the term Conservation
- e. Mention two game reserve in Nigeria.

(3 marks)

(3 marks)

(3 marks)

(3 marks)

(3 marks)

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