

## National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science OCTOBER, 2019 2 EXAMINATIONS

**COURSE CODE: ESM 428** 

COURSE TITLE: ECOLOGY OF NATURAL RESOURCES

**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 ozone layer. (2marks)
- b. Explain these layers of the earth: ionosphere, homosphere and the planetary boundary layer (3marks)
- c. Describe the term climate (2 marks)
- d (i) What is ecosystem (3 marks)
- (ii). Explain briefly biogeochemical cycles (3 marks)
- (iii). Differentiate between wilderness and wildlife (3 marks)
- e i. State the human impact on the natural environment (4 marks)
  - ii. State the clearest manifestation of degradation on natural environment (3 marks)
- f(i) Explain briefly how energy impacts natural environment (2 marks)
- 2a. Explain briefly the relationship between- ecosystem, habitat, and species (2marks)
- 2b. Explain how degradation affects loss of fauna and flora (3marks)
- 2c. Describe the concept of tourism and recreation (4marks)
- 2d. What are the principles of resource sustainability (2marks)
- 2e. State the goals for resource sustainability (4 marks)

- 3a. What is a lake (2marks)
- 3b. Describe the troposphere (3marks)
- 3c. Explain the concept weather (4marks)
- 3d. Describe the biosphere (2marks)
- 3e. Describe briefly the phosphorus cycle (4marks)
- 4a. What is troposphere (2marks)
- 4b. Describe the term weather (3marks)
- 4c. Describe water cycle (4marks)
- 4d. State human impact on natural environment (2marks)
- 4e. How can degradation of natural environment affect flora and fauna (4marks)
- 5a. List some component of the earth (2marks)
- 5b. Explain the biosphere as part of the natural environment (3marks)
- 5c. Define the term- sequestration (3 marks)
- 5d. Explain the emission reduction from the environment (2 marks)
- 5e. What are the actual resources in ecology (4 marks)