



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
OCTOBER, 2019_2 EXAMINATIONS

COURSE CODE: EMT 309

COURSE TITLE: Environmental Geosciences

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) is compulsory and carries 25 marks, while the other questions carry equal marks (15) each.

- 1a. Define the term ozone layer. **(2marks)**
- 1b. Explain these layers of the earth **(3marks)**
- i) Ionosphere
 - ii) Homosphere
 - iii) Planetary boundary layer
- 1c. Describe the term climate **(2 marks)**
- 1d (i) What is ecosystem **(3 marks)**
- (ii). Explain briefly biogeochemical cycles **(3 marks)**
- (iii). Differentiate between wilderness and wildlife **(3 marks)**
- 1e i.) State the human impact on the natural environment **(4 marks)**
- ii). State the clearest manifestation of degradation on natural environment **(3 marks)**
- 1f. 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. Outline the attributes of the troposphere **(3marks)**
- 3c. Discuss the concept weather **(4marks)**
- 3d. Define biosphere as a concept **(2marks)**
- 3e. Briefly discuss the components of phosphorus cycle **(4marks)**
-
- 4a) Explain what potential resources is? **(4marks)**
- 4b.State the function of conservation international **(2marks)**
- 4c.Define the terms nature, resources , and natural resources **(3marks)**
- 4d. Outline the constituents of abiotic resources **(2marks)**
- 4e. Mention the major classifications under which natural resources can be grouped **(4marks)**

- 5a. State the uses of barite **(2marks)**
- 5b. List the importance of chalcopyrite **(3marks)**
- 5c. Outline the importance of atmospheric resources **(4marks)**
- 5d. What is a hydrosphere **(2marks)**
- 5e. Describe the water cycle **(4marks)**