

## National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science... 2021 EXAMINATIONS

**COURSE CODE: ESM 343** 

**COURSE TITLE: Climate Change and Environment.** 

**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.

- 1. (a) Define the following (i) Air pressure (ii) Wind (iii) Precipitation (6marks)
  - (b) Describe the major evidences that exists to allow climatologists to reconstruct the earth's past climate (9marks)
  - (c) With a suitable diagram describe the structure of the atmosphere (8marks)
  - (d) state two specific kinds of albedo (2marks)
- 2. (a) Identify 5 effects of ozone layer depletion (5marks)
  - (b) Describe the Energy Characteristics of Urban Areas (5marks)
  - (c) Describe the instrument used in measuring Atmospheric Pressure (5marks)
- 3. (a) Describe the processes of Acid Deposition (6marks)
  - (b) Identify 4 sources of Sulfur (4marks)
  - (c) Identify 5 sources of Nitrogen Oxide (5marks)
- 4. (a) Identify 5 effects of Acid Precipitation on Vegetation (5marks)
  - (b) identify 5 effects of Acid Precipitation on Man (5marks
  - (c) Identify 5 effects of Climate change on a global Scale (5marks)
- 5. (a) Describe the horizontal distribution of the air (3marks)
  - (b) Identify 7 Factors threatening the environment (7marks)
  - (c)Identify 5 climatic Influence on the Ocean (5marks)