



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
2024 1 EXAMINATION

COURSE CODE: ESM 345
COURSE TITLE: APPLIED CLIMATOLOGY
CREDIT: 2 Units
TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other TWO (2) questions. Question number one (1) carries 30 marks, while the other questions carry (20) marks each.

Question 1 (Compulsory)

- 1(a) What factors are considered in the location of an airport? (2 marks)
- (b) Define soil conservation (3 marks)
- (c) State the environmental impact of drought (2 marks)
- (d) i Name the types of flood (3 marks)
- ii Define the term flood (3 marks)
- iii Enumerate the importance of solar radiation (3 marks)
- (e) i Explain briefly the concept of photoperiodism (4 marks)
- ii What are the effects of frost on agricultural production? (3 marks)
- (f) Explain briefly the term volcanic ash (7 marks)

Total Mark Question 1=30 marks

Question 2

- (a) Itemize the major effects of flooding to the environment (3 marks)
- (b) What is water conservation? (4 marks)
- (c) Enumerate the effects of drought on the environment (5 marks)
- (d) Itemize the causes of flooding (3 marks)