



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCE

2024 1 EXAMINATION-

COURSE TITLE: AGRO CLIMATOLOGY AND BIOGEOGRAPHY (2 CU)

COURSE CODE: AGR 309

TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer 3 questions in all

Question 1 is compulsory (30 marks) and any other TWO questions (20 marks each)

TIME ALLOWED: 2 ½ Hours

1. a. Certain aims are associated with biogeography. Exhaustively discuss these aims. (10 marks)
b. Discuss the following factors controlling weather and climate:
bi. Distribution of land and sea bii. Prevailing winds and the location of the main pressure centre. (10 marks)
c. Define weather and climate. (10 marks)
2. a. Explain the long wave energy in the atmosphere. (10 marks)
b. Outline the five major air masses which affect a location at various times of the year. (10 marks)
3. a. Analyze the changes that occur in air pressure during the summer season. (10 marks)
b. Discuss the following types of precipitation:
bi. Snow. bii. Hailstone. biii. Acid rain. (10 marks)
- 4.a. State any five policy principles of mitigation and adaptation to climate change as suggested by Travis Lybbert and Daniel Sumner. (10 marks)
b. Enumerate five factors that affect evapo-transpiration. (10 marks)

Question Four

- 4a. i. Explain Flynn Categorization of parallel processing system
- 4a. ii. What is I/O
- 4b. i. In the context of digital computer, what is the different between data and information

Question Five

- 5a. i. There are two decisions for a scheduler to make before processing a job, state the two processes.
 - 5b. ii. Using a well labeled diagram, explain the terms programming in hardware approach?
- [3 marks]**
- 5b. i. what is subtraction flow?
 - 5b. ii. What is Central processing unit (CPU)?
 - 5b. iii. List four example of Address and Data signals in intel 8085 CPU.