



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES
2025_1 EXAMINATION**

COURSE TITLE: AGROCLIMATOLOGY AND BIOGEOGRAPHY (3 CU)

COURSE CODE: AGR 309

TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer *FOUR Questions in all.*

Question 1 is compulsory (25marks) and any THREE Questions (15 marks each)

TIME ALLOWED: 3 hours

Q1

- (a) (i) Describe the term “Temperature” (5 marks)
- (ii) State the formula to obtain Centigrade from Fahrenheit (5 marks)
- (iii) State the formula to obtain Fahrenheit from Centigrade (5 marks)
- (b) How is convectional rainfall formed and what are its features (10 marks)

Q2

Explain in detail, the importance of climate and weather on the followings:

- (a) Transportation and communication (8 marks)
- (b) Mode of dressing and nature of houses (7 marks)

Q3

What are the effects of rainfall on crop growth and distribution (15 marks)

Q4

Discuss the factors that affect evapo-transpiration (15 marks)

Q5

Explain in detail the maintenance of the following meteorological equipment/instruments:

- (a) Wind vane and anemometer
- (b) Thermometer and Hydrometer
- (c) Power supply (solar panel) (5 marks each)