



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCES
Km 4 Kaduna-Zaria Expressway Rigachikun, Kaduna
2020_1 EXAMINATION

COURSE CODE: AGR 309

COURSE TITLE: AGROCLIMATOLOGY AND BIOGEOGRAPHY

TOTAL CREDIT UNITS: 3 CU

INSTRUCTIONS: Answer five questions in all. Question one is compulsory (30 marks). The rest carry 10 marks each.

TIME ALLOWED: 3 hours

- 1) (a) Concisely differentiate between weather and climate (5 marks)
(b) Explain and illustrate with diagram the process of heating of the atmosphere (15 marks)
(c) In what ways could climate change affect agriculture? (10 marks)
- 2) Explain in detail the importance of climate and weather on transportation and communication. (10 marks)
- 3) (a) Mention the three (3) essential purposes of the liquid form of water (5 marks)
(b) Describe the solid form of water (5 marks)
- 4) Describe in detail, the two (2) processes involved in precipitation. (10 marks)
- 5) Describe the weather instruments Hygrometer and Anemometer (10 marks)
- 6) How do you maintain the following instruments in a weather station
 - (a) Wind vane (5 marks)
 - (b) Rain gauge (5 marks)
- 7) Discuss rainfall and temperature as they affect livestock growth and distribution (10 marks)