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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF CROP AND SOIL SCIENCES APRIL 2019\_1 EXAMINATION

**COURSE CODE: AGR309** COURSE TITLE: AGRO-CLIMATOLOGY AND BIOGEOGRAPHY **CREDIT UNIT: 3** INSTRUCTIONS: Answer five questions in all. Question one is compulsory and it carries 30 marks. The rest carry 10 marks each. **TIME ALLOWED**: 3 hours 1) (a) Discuss the importance of climate and weather with respect to agriculture and (10 marks) transportation (b) List only the factors that affect evapo-transpiration (10marks) (c) Explain in detail the concept and meaning of climate change (10 marks) 2) (a) Differentiate between weather and climate (5 marks) (b) List five elements of weather (5 marks) 3) Discuss the mechanisms of condensation in agro-climatology (10 marks) 4) (i) List five instruments used in taking weather records in a meteorological station. (5 marks) (ii) Explain in detail the workings of Rain gauge and Barometer instruments in a meteorological station (5 marks) 5) Describe in details the climate of equatorial trough. (10 marks) 6) (a) What is temperature? (4 marks) (b) Mention any three factors that affect variations in temperature of a place (6 marks) 7) Explain the effects of the followings on crop growth and distribution (a) Rainfall (5marks) (b) Sunlight (5 marks)