



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

EXAMINATION: 2021_1 POP EXAMINATION

COURSE TITLE: INTRODUCTION TO SOIL MICROCLIMATOLOGY (2 CU)

COURSE CODE: SLM 307

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 Hours

1. a. Differentiate between weather and climate (15 marks)
b. Discuss the scope of microclimatology (15 marks)
2. a. What is temperature (5 marks)
b. Explain the climatic factors influencing temperature (15 marks)
3. Explain the following factors of Solar radiation (20 marks)
 - i. Solar input
 - ii. Solar altitude
 - iii. Length of day
4. a. Briefly explain the general atmospheric radiation (15 mark)
b. Discuss the land and sea breeze (5 mark)