



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

EXAMINATION: 2021_2 POP EXAMINATION⁷⁸³⁶

COURSE TITLE: SLM 507: SOIL MORPHOLOGY AND CLASSIFICATION (3 CU)

COURSE CODE: SLM 507

TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer 4 questions in all

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

TIME ALLOWED: 2 ½ Hours

Q1

- a. Give general definition of soil (5 marks)
- b. How do the under listed understand soil? (15 marks)
 - i. An Edaphologist or Agronomist
 - ii. A Soil Scientist
 - iii. A Civil Engineer
 - iv. A Geologist
 - v. A Geographer
- c. Explain the two (2) active or major factors of soil origin (5 marks)

Q2

Discuss the two (2) broad kinds of soil classification (15 marks)

Q3

Explain four (4) types of transported parent materials you studied (15 marks)

Q4

Describe ways in which climate through precipitation affect soil formation (15 marks)

Q5

Give the description of the following soil master horizons (15 marks)

- i. O Horizon
- ii. A Horizon
- iii. E Horizon
- iv. B Horizon
- v. C Horizon
- vi. R Horizon