



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

EXAMINATION: 2021_1 POP EXAMINATION

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. Discuss what makes Edaphology and Pedology key concepts of the soil (10 marks)
- b. Explain the two (2) major roles of soil to crops (10 marks)
- c. Briefly discuss what makes soil to be of utmost interest to man (5 marks)

Q2

- a. Distinguish Eluviation from Illuviation (10 marks)
- b. Briefly explain Lessivage and Podzolization processes in relation to soil formation (5 marks)

Q3

With the aid of a diagram explain the different horizons of a soil profile (15 marks)

Q4

- a. What do you understand by soil texture (5 marks)
- b. Explain the importance of soil texture (10 marks)

Q5

- a. Define Soil classification (5 marks)
- b. What is the purpose of soil classification (10 marks)