



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

EXAMINATION: 2021_1 POP EXAMINATION

COURSE TITLE: ADVANCED SOIL FERTILITY (2 CU)

COURSE CODE: SLM 501

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. Define soil and explain its two (2) main groups (10 marks)
b. Explain the components of the soil (10 marks)
c. Outline the functions or roles of the soil in agricultural productivity (10 marks)
2. a. Mention major soil types in Nigeria Savannah (10 marks)
b. Discuss the features of soils in (a) above (10 marks)
3. a. Define soil fertility and state the factors affecting it (10 marks)
b. What is the importance of soil fertility to agriculture (10 marks)
4. a. What are nutrient elements? Discuss 3 factors that determine their classification (10 marks)
b. Discuss the two (2) basic forms of nutrient elements in the soil (10 marks)