



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

EXAMINATION: 2021_2 POP EXAMINATION₇₈₃₆

COURSE CODE: SLM 512

COURSE TITLE: FERTILIZER TRCHNOLOGY (2 UNITS)

TOTAL SCORE: 70 MARKS

INSTTRUCTION: Answer *THREE* Question in all

Question 1 is compulsory (30 marks) and any TWO Questions (20 marks)

TIME ALLOWED: 2 hours

Q.1a. Define the term Integrated Soil Fertility Management (ISFM) and briefly explain its role (5 Marks)

b. Describe the nature of the following nitrogenous fertilizers with their varying nitrogen contents: Ammonium sulphate and Calcium ammonium nitrate (18 Marks)

c. State the cause for micronutrient fertilizers need and describe the sources of micronutrients usually applied to crops (7 Marks)

Q.2a. Describe the nature and phosphorus content of phosphorus fertilizer sources using suitable examples. (19 Marks)

b. Briefly explain the any one of the following terms: Straight and Compound Fertilizer (1Marks)

Q.3a. State the role of potassium in plant growth and describe the content of the two main potassium fertilizer sources. (15 Marks)

b. Explain Fertilizer Ratio significance in relation to planting date (5 Marks)

Q. 4. In a Table form state the compound formula and nutrients content of 10 salts of micronutrients commonly used in fertilizers (20 Marks)