



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

**EXAMINATION: 2021\_2 POP EXAMINATION<sup>™</sup>**

**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)