

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

EXAMINATION: 2021\_2 POP EXAMINATION. 2021\_2 POP EXAMINATION.

**COURSE CODE: SLM 516** 

COURSE TITLE: ADVANCE SOIL SCIENCE (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**. List all the methods used in a field to estimate soil texture and describe the procedure in determining. (25 Marks)

- **b**. Briefly explain the process of Particle-size analysis in the laboratory (5 Marks)
- Q.2a. Enumerate all the different types of organisms that influence soil formation (10 Marks)
  - **b.** Describe the term Evapotranspiration (10 Marks)
- **Q.3a.** Effects of tillage vary greatly, depending on soil, crop and weather conditions. Discuss under each (10 Marks)
- **b.** State any five (5) different types of toil Tillage (10 Marks)
- **Q. 4**. The plant growth is influenced by a variety of external and internal factors. Discuss the following: Light, Temperature, Water and Nutrients (20 Marks)