



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
KM 4 Kaduna – Zaria Expressway, Rigachikun, Kaduna  
Department of crop and soil science  
**FACULTY OF AGRICULTURAL SCIENCES**  
2020\_1 EXAMINATION

**COURSE CODE:** SLM 504  
**COURSE TITLE:** Anthropogenic Impact of Land  
**UNIT:** 2  
**TIME:** 2 HOURS

**INSTRUCTION:**

**Answer questions one (1) and any other three (3) questions.**

- Q. 1 a.** Define Soil from the concepts of three (3) different land users: Agronomists, Soil Scientist and Geologist **(15 Marks)**
- b.** List any four (4) benefits of soil organic matter as a component of soil. **(10 Marks)**
- Q. 2.** Discuss any five (5) factors contributing to land use and land cover changes. **(15 Marks)**
- Q. 3 a.** Briefly explain Soil nutrient as essential elements for crop growth **(5 Marks)**
- b.** Differentiate between the effects of Soil Flora and Soil Fauna **(10 Marks)**
- Q. 4.** Discuss any four (5) factors contributing to land use and land cover changes. **(15 Marks)**
- Q. 5.** What are the important functions of soil micro-organisms? **(5 Marks)**
- b.** Explain the process used in correcting Salt-affected Soils **(10 Marks)**
- Q. 6 a.** Describe the methods of studying microbial communities' groups, based on their ability to identify microbial biomass, diversity or activity? **(11 Marks)**
- b.** What are the four (4) factors that influence the quantity and quality of root substance secretion called exudates? **(4 Marks)**