



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

EXAMINATION: 2021_2 POP EXAMINATION.

COURSE CODE: SLM 504

COURSE TITLE: ANTHROPOGENIC IMPACT ON LAND (2 UNITS)

TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer *THREE* Question in all

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

TIME ALLOWED: 2 hours

Q.1a.What are the methods of studying microbial communities groups based on their ability to identify microbial biomass, diversity or activity? (22 Marks)

b. What is the difference between land and soil? List (4) factors that influence the quantity and quality of root substance secretion called exudates? (8 Marks)

Q. 2a.Explain the important effects of Soil particle size and how does an activity of Micro-organisms affect soil properties? (20 Marks)

Q. 3 a. Explain the component of fertilizer and elaborate on the different conditions on how Air and Water compete for the soil pore spaces (12 Marks)

b. Enumerate 5 various purposes and benefits of soil on the Earth (8 Marks)

Q.4a. List five natural resources you can see around you. (5 Marks)

b. Enumerate benefits derived from Agricultural uses of Land (15 Marks)