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

EXAMINATION: 2021\_1 POP EXAMINATION ...

**COURSE CODE: SLM 514** 

**COURSE TITLE: SOIL ECOSYSTEM (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 and explain the meaning of microbial ecology (1 Mark)

- b. Differentiate between the following discrete categories of organisms in the ecosystem: Producers, Herbivores, Primary carnivores, Secondary carnivores and Decomposers (6 Marks)
- c. In a Table form classify soil organisms indicating their major and smaller groups' size and examples (23 Marks)
- Q.2a. Without microorganisms there will be no organic matter decomposition. Discuss the assertion, describing clearly, the process and products formed after decomposition. (11 Marks)
  - b. Explain the meristic approach to soil ecosystem development. (9 Marks)
- Q. 3. Discuss the decomposition of the various components of organic matter. (20 Marks)
- Q. 4. Differentiate between aerobic and anaerobic soil organisms. (20 marks)