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

EXAMINATION: 2021_2 POP EXAMINATION 7836

COURSE TITLE: SOIL MICROBIOLOGY AND BIOCHEMISTRY (2 CU)

COURSE CODE: SLM 505 TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer 3 questions in all

Question 1 is compulsory (30 marks) and any other Two questions (20 marks each)

TIME ALLOWED: 2 Hours

Q1

a. Discuss the role of microorganism in the soil (15 marks)

b. Briefly explain five (5) microscopic methods plus culturing (15 marks)

Q2

a. Mention and discuss the metabolic diversity of bacteria (20 marks)

Q3

a. Explain the organic and inorganic P forms in soils (10 marks)

b. What are the roles of P on the biota (10 marks)

Q4

a. What is the difference between Nitrogen mineralization and immobilization(5 marks)

b. Discuss the factors affecting Nitrification in the environment (15 marks)