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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 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. The soil constitutes a variety of organisms forming a food web. List any 10 of these organisms, factors affecting their composition, number and activities. (16 Marks)

- b. State clearly the factors affecting the soil ecosystem functions. (14 Marks)
- Q.2a. Explain the nature of the Symbiosis between Rhizobia and Legumes and the diversity of Organisms Involved in Nitrogen Fixation (20 Marks)
- **Q**. 3. Highlight the importance of dead Plants as Source of energy and relationship between plants and soil microorganisms. (20 marks)
- Q.4a. Is there any benefit in the direct relationship between the Soil and Plants? (10 Marks)
 - b. Explain the development of Plant Roots relative to their role in the Soil (10 Marks)