



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCE
2025_2 EXAMINATIONS**

COURSE TITLE: INTEGRATED SOIL MANAGEMENT (2CU)

COURSE CODE: SLM 506

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

- 1a. Highlight the challenges to wetland management in semi-arid regions (10 marks)
- 1b. Enunciate the major kinds of soil erosion, causes and effects (10 marks)
- 1c. Enunciate the major factors in Soil Erodibility and list the factors that determines the volume of run-off and erodibility (10 marks)
- 2a. Describe the opportunity and challenges of carbon sequestration in the soil (10 marks)
- 2b. What are the strategies of increasing carbon stock in soils (10 marks)
- 3a. Discuss the acid sulfate problems of soils and suggest ways to ameliorate these conditions (10 marks)
- 3b. Highlight ten (10) characteristics of an organic soil (10 marks)
- 4. Describe the role of P in soil nutrient availability in the soil (10 marks)
- 4b. How is Carbon Sequestered in Soils (10 marks)