



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

COURSE CODE: SLM 308

COURSE TITLE: SOIL AND WATER MANAGEMENT (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. Define soil and water conservation (5 Marks)

- b. Explain the significance of water conservation in agriculture. (8 Marks)
- c. Describe the impact of soil erosion on agricultural productivity. (8 Marks)
- d. List and explain two soil conservation techniques. (9 Marks)

Q. 2a. What is the concept of soil management? (5 Marks)

- b. Identify and explain two soil management practices. (10 Marks)
- c. State the advantages of effective soil management. (5 Marks)

Q. 3a. Define water management in agriculture. (5 Marks)

- b. Explain how improving water management practices can increase crop productivity. (9 Marks)
- c. Discuss the challenges faced in water management for agriculture. (6 Marks)

Q. 4a. Describe the role of cover crops in soil management. (6 Marks)

- b. Explain how nutrient management contributes to soil health. (7 Marks)
- c. Identify and explain two methods of restoring soil fertility. (7 Marks)