

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

EXAMINATION: 2021_2 POP EXAMINATION 7155 COURSE TITLE: INTEGRATED SOIL MANAGEMENT (2 CU) 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**

Q1

	a. What do you understand by "soil erodibility"?	(10 marks)
	b. Mention and explain at least 5 factors that influence the size and stabili	ty of aggregates
		(20 marks)
Q2		
	a Discuss the On-site and Off-site effects of water erosion	(10 marks)
	b. Explain Sedimentation as part of erosion process	(10 marks)
Q3		
C-	a. Discuss the two main classes of organic matter based on the stages of breakdown	
		(10 marks)
	b. Mention and discuss five (5) key management operations of organic matter (10 marks)	
Q4		

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a. Define carbon sequestration	(5 marks)
b. Outline fifteen (15) practices that can increase carbon stock in soils	(15 marks)