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NATIONAL OPEN UNIVERSITY OF NIGERIA DEPARTMENT OF CROP AND SOIL SCIENCE FACULTY OF AGRICULTURAL SCIENCES EXAMINATION QUESTIONS, APRIL 2019

Course Code: SOS301

Course Title: INTRODUCTION TO PEDOLOGY AND SOIL CLASSIFICATION

Credit Units: 2

Time Allowed: 2 hours

Instruction: Answer 4 questions in all; No. 1 is compulsory and carries 25 marks and any other three (3) questions carrying 15 marks each,

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1.	a. Define Soil	as relates to a	unosphere.	nuiospiieie.	nvarosbnere	and blosbi	iere (5 marks)	,

b. Mention five (5) soil forming factors

(5 marks)

c. Explain how each of the five (5) factors mentioned above aids soil formation (10 marks)

d. Discuss the morphological properties of soil

(5 marks)

2. a. What do you understand by the term "Weathering"? (3 marks)

b. Explain the following types of weathering with at least 3 examples in each case:

i. Physical Weathering (1mark), 3 Examples (3 mark) (4 mark)

ii. Chemical Weathering (1mark), 3 Examples (3 mark) (4 mark)

iii. Biological Weathering (1mark), 3 Examples (3 mark) (4 mark)

3. a. Define soil survey

(3 marks)

b. Define Soil profile

(2 marks)

c. Mention and briefly explain at least five (5) types of soil horizons

(10 marks)

4. a. Discuss the concept of soil classification

(5 marks)

b. Mention and briefly explain any five (5) orders in the USDA Soil Taxonomy (10 marks)

5. a. Outline at least eight (8) properties of Nigerian Soil

(8 marks)

b. Mention seven (7) major division of ecological regions in Nigeria

(7 marks)

- 6. Briefly explain how the fertility of Nigerian soils could be effectively maintained using the following:
 - a. Crop rotation,
 - b. Green manuring,
 - c. Compost manure
 - d. Farmyard manure
 - e. Proper land use

(Each one correctly explained carries 3 marks) = 15 marks