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## NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, University Village, Nnamdi Azikiwe Expressway, Jabi, Abuja

Faculty Agricultural Sciences
DEPARTMENT OF CROP AND SOIL SCIENCES
2020\_2 EXAMINATION ...

## SOS 301- INTRODUCTION TO PEDOLOGY AND SOIL CLASSIFICATION EXAMINATION

Instruction: Answer 4 questions in all; No. 1 is compulsory and carries 25 marks and any other three questions carrying 15 marks each. 2 CU

Question D.

<ul><li>1. a. Give a full description of the term "soil"</li><li>b. Fully explain the origin and formation of soil</li></ul>	(10 marks) (15 marks)
2. Mention and briefly explain the five factors of soil formation	(15 marks)
<ul> <li>3. a. Define soil morphology</li> <li>b. Explain briefly the following morphological properties</li> <li>i. micromorphology</li> <li>ii. Porosity</li> <li>iii. Soil texture</li> </ul>	(3 marks) (12 marks)
<ul><li>4. a. What is soil survey?</li><li>b. Explain the components of soil survey</li></ul>	(5 marks) (10 marks)
<ol> <li>a. Mention at least ten (10) Orders in the US Soil Classification Systems</li> <li>b. How can crop rotation be used in soil fertility maintenance</li> </ol>	(10 marks) (5 marks)
<ul><li>6. a. Briefly describe the properties of Nigerian soil</li><li>b. State at least 5 chief factors contributing to soil fertility</li></ul>	(10 marks) (5 marks)