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

EXAMINATION: 2021_1 POP EXAMINATION ...

COURSE CODE: SLM 516

COURSE TITLE: ADVANCE SOIL SCIENCE (2 UNITS)

TOTAL SCORE: 70 MARKS

INSTTRUCTION: Answer THREE Question in all

Question 1 is compulsory (30 marks) and any TWO Questions (20 marks)

TIME ALLOWED: 2 hours

Q.1a. Discuss the largest and the most complicated class of minerals than any other minerals (16 Marks)

b.Differentiate between igneous rocks and sedimentary rocks. (10 Marks)

- c. A soil profile may have soil horizons that are easy or difficult to distinguish what is the function of the A horizon in relation to crop production. (4 Marks)
- **Q.2a**. The processes of soil formation have four major processes list and explain these processes (13 Marks)
 - **b**. What are the impact of Water-filled pore space and porosity? (7 Marks)
- **Q.3a.** Parent materials are the initial mineral substances that form a soil. Discuss in detail the term Isomorphous substitution (20 Marks)
- **Q.4**. Soil formations as a function of five different factors, discuss (20 Marks)