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

EXAMINATION: 2022_2 POP EXAMINATION COURSE CODE: SLM301 COURSE TITLE: INTRODUCTION TO SOIL MINEROLOGY 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. what are the roles of Soil In relation to Soil Mineralogy and Toxicology? (12 Marks)

b. In a Table form list all the metal oxides, oxyhydroxides, and hydroxides found commonly in soils and their chemical formula (18 Marks)

Q.2a. Discuss soil as essentially a solid phase	(16.5 Marks)
b. Describe Magnesium hydroxide as one of basic sheet silicates	(3.5 Marks)
Q.3a. Mention any 3 Significance of Soil Minerals?	(4 Marks)
b. Describe quartz as a framework Silicates	(16 Marks)
Q. 4a.Differentiate between Liquid Phase and soils Gas Phase	(15 Marks)
b. Briefly explain the term Mineral	(5 Marks)

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