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### NATIONAL OPEN UNIVERSITY OF NIGERIA

#### SCHOOL OF SCIENCE AND TECHNOLOGY

# B. Sc. AGRIC EXTENSION PROGRAM JANUARY 2013 EXAMINATION INTRODUCTION TO SOIL PEDOLOGY(SOS 301)

DATE: FRIDAY 25TH JANUARY, 2013

#### **ANSWER ANY FOUR OUESTIONS IN TWO HOURS**

- Q1a. Briefly discuss the relevance of the study of the soil to mankind
- b. Give a definitive description of the word soil.
- Q2a. With reference to weathering, briefly describe the origine/formation of the soil.
- b. List the soil forming factors
- Q3 Write a short descriptive note on each of the following.
- (a) Topography and soil formation
- (b) Biota and soil formation
- (c) Climate and soil formation
- Q4a. Describe the morphological characteristics of the soil.
- b. Write a short note to explain each of the following.(i) Soil porusity (ii) soil texture. (iii) component of the soil.
- Q5a. List the three types of weathering
- b. Describe the 3 types of weathering listed in a above
- Q6a. Explain how organic matter and micro organisms influences the fertility of the soil.
- b. List the practices that can destroy the soil
- c. State the importance of soil mapping.