

NATIONAL UNIVERSITY OF LESOTHO

BSC. SUPPLEMENTARY EXAMINATIONS

PG347: SOIL CLASSIFICATION AND SURVEY

JULY 2009

MARKS:100

TIME:3HRS

INSTRUCTIONS: Answer **FOUR** questions. Where possible illustrate your answer with diagrams/equations

1. Discuss soil survey. Your discussion should include why and how it is made. [25]
2. Differentiate between Soil Taxonomy and the earlier soil classification systems used in the USA. [25]
3. Discuss four of the principles that a natural soil classification follows, demonstrating the extent to which Soil Taxonomy satisfies them. [25]
4. (a) What Category is Durixeralf? [3]
(b) What Order does a Durixeralf belong to? [1]
© Does this Order occur in Lesotho? [1]
(d) Describe the characteristics of a Durixeralf. [10]
(e) Describe the characteristics of an Argialbolls [10]
(25)
5. Describe how climate, organism, parent material, and topography affect soil information. Your description should include soil forming processes and/or properties affected by each factor. (25)
6. Soil forming processes may conveniently be divided into four major processes. With examples describe each of these processes. (25)