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EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

FIRST SEMESTER EXAMINATION 2013/2014

FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE/ AGRICULTURAL EDUCATION AND EXTENSION/ AGRICULTURE

ASS 101: LANDFORMS AND SOIL FORMATION

DATE: DECEMBER 6, 2013

TIME: 8.30 – 10.30 AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- a) Explain the meaning of the following terms in reference to landforms and soil formation
(3 marks each, total 15 marks)
- i.) Laterization
 - ii.) Pedology
 - iii.) Podzolization
 - iv.) Humification
 - v.) Landscape
- b) Write explanatory notes on the following;
- i.) Functions of soil in nature (5 marks)
 - ii.) Roles and importance of different microorganisms in soil. (5 marks)
 - iii.) Problems that soil can cause to human beings (5 marks)

QUESTION TWO

- a) State the five factors of soil formation. (10 marks)
- b) Describe how each of the factors affects soil formation and development (10 marks)

QUESTION THREE

- a) Describe the various types of weathering that occur in nature. (10 marks)
- b) State the factors that affect the rate of weathering. (10 marks)

QUESTION FOUR

- a) Write explanatory notes on the various components that make up soil (10 marks)
- b) Draw a typical soil profile and describe the characteristics of each horizon (10 marks)

QUESTION FIVE

- a) Write explanatory notes on the importance of soil erosion on the process of soil formation (10 marks)
- b) Describe the economic importance of soil minerals. (10 marks)

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