

EASTERN UNIVERSITY, SRI LANKA
SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2013/2014
AC 2101: PROPERTIES AND APPRAISAL OF SOIL (January 2016)

Time: 2 hours

Answer all questions

- Q1) a. Identify major potential soil gases and explain how gaseous exchange takes place. (50Marks)
- b. Describe different groups of organic matter and its benefits. (50Marks)
- Q2) a. What are the characters that should be considered in selecting a liming material. (20 marks)
- b. Classify colloids into different groups (30 Marks)
- c.. “CEC increases for each increase in % of clay depending on the type of clay”
Comment on the statement. (50 Marks)
- Q3) a. Discuss about the factors controlling soil reaction. (60 Marks)
- b. Write an account on “Management practices that can be adopted to reclaim saline and sodic soils”. (40 Marks)
- Q4) Write short notes on the followings
- a. Microbe-plant interaction in soil
- b. Distinguish between soil crusting and soil cracking
- c. Mottle development process and importance.
