CAT 3

ALP 2201: SOIL PHYSICS

14TH NOVEMBER 2016

EBOUR

TIME: 1 HOUR

INSTRUCTIONS

Answer ALL questions

Q1. (a) Why is good aeration capacity of soils considered a determinant of agricultural productivity?

(10 Marks)

- (b) Describe two mechanisms responsible for gaseous exchange in soils, indicating their differences and similarities if any.

 (10 Marks)
- (6 Marks)
 - (ii) Why is the above process considered to be the most important mechanism of solute transfer?

 (4 Marks)
 - (b) Discuss how fractional volume of the liquid phase and geometric configuration of the soil pores influence the tortuosity factor in solute movement in soils. (10 Marks)