

EASTERN UNIVERSITY, SRI LANKA

FINAL YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2016/2017

AC – 4107 SOIL CHEMISTRY (2:20/20)

Answer all questions

Time: One Hour

1. a. "The DLVO theory explains the tendency of colloids to agglomerate or remain discrete" Discuss the statement with graphical illustrations (35 marks)
 - b. Briefly explain the Normalized Exchange Isotherm in a homovalent binary system. (15 Marks)
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2. Briefly describe the followings:
 - a. "IA unit different in radii of 2 cations of same valency may lead to considerable difference in selectivity coefficient"
 - b. Factor affecting the thickness of diffuse double layer
 - c. Sequence in the formation of a double layer

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FINAL YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE- 2016/17

AE 4111 – PRESSURIZED IRRIGATION SYSTEM (2: 15/30/45)

(December 2018)

Answer all Questions

Time: One hour

01. (a) What do you mean by the following terms?
- i. Management Allowable Deficit (MAD).
 - ii. Net Irrigation Requirement (NIR).
 - iii. Overhead sprinkler.
- (b) Classify and explain the different types of emitters used in the drip irrigation system.
02. (a) Give the components of the micro irrigation systems and mention the major requirements of an emitter during selection.
- (b) Briefly discuss the advantages and disadvantages of sprinkler irrigation method over surface irrigation method.
- (c) Discuss the factors that are to be considered for the selection of a particular irrigation method.
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