

SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

ASS 301: SOIL FERTILITY AND FERTILIZER USE

DATE: 15TH DECEMBER, 2017 TIME: 4.00 - 6.00 PM

Answer all questions in section A and two questions in	n section E	3
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SECTION A

Q1. Write short notes about	
(a) Soil texture	
(b) Movement of water in the soil	
(c) Infiltration	(5 marks each)
Q2. Briefly explain	
(a) Soil structure	
(b) Available water	
(c) Soil effect on root development	(5 marks each)
SECTION B	
Q3. Discuss	
(a) Ion exchange in a farm soil	
(b) Natural fertilizers in Agriculture	(10 marks each)
Q4.Describe in details	
(i) Macro and micro-nutrients	
(ii) Organic fertilizers	(10 marks each)
Q5. Discuss	
(a) Essential plant nutrients	
(b) The common manifestations of plant nutrient deficiencies	(10 marks each)