



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURAL RESOURCE MANAGEMENT

ART603: ENVIRONMENTAL MANAGEMENT AND POST HARVEST TECHNOLOGY

DATE: 08TH DECEMBER, 2017

TIME: 9.00 -12.00 PM

Answer **all** questions in section A and **two** questions in section B

SECTION A

Q1. Explain the following

- (i) Integrated nutrient management options
- (ii) The three types of soil classification
- (iii) Vertisols
- (iv) Dissolved oxygen in water
- (v) Precautions in pesticide handling (3 marks each)

Q2. Outline

- (a) the basic aspects of environmental resource management
- (b) Waterharvesting structures
- (c) Postharvest physiology (5 marks each)

SECTION B

Q3. In the study of *Fraser et al.*, 2006; Discuss the contrast between bottom up and top down approaches in community empowerment and sustainable environmental management (20 marks)

Q4. Write short notes on the following

- (i) Food storage and preservation
- (ii) Carbon sequestration (10 marks each)

Q5. Briefly explain

(a) Food spoilage

(b) Traditional farm storage methods

(10 marks each)