



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN DRYLAND AGRICULTURE

DAS 203: SOIL -WATER -PLANT RELATIONS

DATE: 10TH APRIL 2017

TIME: 1.30 -3.30 PM

Answer both questions in section A and two questions in section B

SECTION A (30 marks)

Q1. Write short notes about

- (a) The soil system
- (b) Soil classification
- (c) Classification of soil water
- (d) Importance of water in plant growth
- (e) Plant factors that affect irrigation

(3 marks each)

Q2. Outline the following

- (i) Soil-Water interactions
- (ii) Functions of roots in plants
- (iii) Infiltration
- (iv) Soil structure
- (v) Soil texture

SECTION B

Q3. Discuss aridity in the drylands (20 marks)

Q4. Discuss drought in the arid and semi-arid lands (20 marks)

Q5. Discuss land use in the ASALs of Africa (20 marks)