



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

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

AEB 302: IRRIGATION AND WATER MANAGEMENT

DATE: 06TH DECEMBER, 2017

TIME: 1.30 -3.30 PM

Instructions

Answer all questions in section A and any TWO in section B

Section A (30mks)

- Q1. List at least five irrigation schemes in Kenya (5mks)
- Q2. Highlight five methods of draining excess water (5mks)
- Q3. List five disadvantages of irrigation (5 mks)
- Q4. Define the following terms
- a) Transpiration (1mk)
 - b) Gravitational water (1mk)
 - c) Field capacity (1mk)
 - d) Bulky density (1mk)
 - e) Permanent wilting point (1 mk)
- Q5. State the objectives of irrigation (5mks)
- Q6.Explain SAR as it is used in agricultural irrigation (5mks)

Section B (40 mks)

- Q7. Explain the contribution of irrigation to the economic development of Kenya (20mks)
- Q8.Briefly explains the various irrigation methods used in Kenya (20mks)
- Q9. Discuss the factors which determine irrigation water quality (20mks)