



# **SOUTH EASTERN KENYA UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2017/2018**

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

#### **DAS 303: ANNUAL CROPS**

**DATE: 04<sup>TH</sup> DECEMBER, 2017**

**TIME: 10.30 -12.30 PM**

**Instructions: ANSWER ALL QUESTIONS IN SECTION A  
ANSWER ANY TWO QUESTIONS IN SECTION B**

#### **SECTION A (30 marks)**

1. (a) Define an annual plant (2 marks)
- (b) Discuss the environmental factors that determine crop performance (8 marks)
2. Briefly discuss ecological requirements for maize production (10 marks)
3. Explain why sorghum is more drought resistant compared to maize plant (10 marks)

#### **SECTION B (40 marks)**

4. Explain the factors to be considered when selecting seeds for planting (20 marks)
5. (a) Explain the conditions necessary for production of Irish potatoes (10 marks)
- (b) Discuss the production of field beans (10 marks)
6. Explain the factors that determine:
  - (a) Timely planting (4 marks)
  - (b) Depth of planting (4 marks)
  - (c) Spacing (4 marks)
  - (d) Seed-rate (4 marks)
  - (e) Yields (4 marks)