



# **SOUTH EASTERN KENYA UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2017/2018**

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

#### **ACS 404: POSTHARVEST PHYSIOLOGY AND TECHNOLOGY**

**DATE: 05<sup>TH</sup> DECEMBER, 2017**

**TIME: 8.00 -10.00 AM**

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

#### **SECTION A**

Q1. Briefly explain the following basic harvest and post-harvest considerations

- (a) Skin colour
  - (b) Abscission
  - (c) Firmness
  - (d) Aroma
  - (e) Leaf changes
- (3 marks each)

Q2. Write the differences between

- (i) Food storage and food preservation (5 marks)
- (ii) Metal drums and small metal silos (5 marks)
- (iii) Earthen pots and baskets in food storage (5 marks)

#### **SECTION B**

Q3. Discuss

- (a) Drying of farm produce
  - (b) Fermentation as a means of food preservation
- (10 marks each)

Q4. Discuss

- (i) Vertical silos
  - (ii) The types of losses incurred in silos
- (10 marks each)

Q5. Discuss the post-harvest handling of vegetable crops (20 marks)