



**SOUTH EASTERN KENYA UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2017/2018**

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF  
SCIENCE IN HORTICULTURE**

**ACH 201: NURSERY MANAGEMENT**

**DATE: 07<sup>TH</sup> DECEMBER, 2017**

**TIME: 8.00 -10.00 AM**

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

**Time: 2 hours**

**SECTION A (30 marks)**

1. (a) Differentiate between a nursery bed and a seed-bed (2 marks)  
(b) Discuss the factors to consider when selecting a suitable site for nursery bed (8 marks)
2. Explain the routine management practices in raising seedlings in a nursery up to transplanting stage (10 marks)
3. Discuss the reasons for nursery bed establishment (10 marks)

**SECTION B (40 marks)**

4. (a) Explain the factors to consider when selecting mulching materials (10 marks)  
(b) With an aid of a diagram illustrate the early stages of growth and development of a plant (10 marks)
5. (a) Discuss fertigation and the importance of fertigation in crop production (10 marks)  
(b) Write short notes on:-
  - (i) Competition in a nursery bed (4 marks)
  - (ii) Interference (3 marks)
  - (iii) Allelopathy (3 marks)
6. Discuss soil and water management practices in a nursery bed (20 marks)