

**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE AND BACHELOR OF SCIENCE IN HORTICULTURE**

**COURSE CODE: HOR 120**

**COURSE TITLE: INTRODUCTION TO HORTICULTURAL SCIENCE AND MANAGEMENT**

**DATE: 27TH JUNE, 2017 TIME: 2.00 P.M-5.00 P.M**

**INSTRUCTIONS TO CANDIDATES:**

Answer any **FIVE** Questions

**Question One**

1. Differentiate between:
2. Exotic fruits and indigenous fruits. (2 marks)
3. A cold frame and a hot bed. (4 marks)
4. Explain the factors that favour horticultural development in Kenya. (6 marks)
5. Briefly discuss the following:
6. How seed production of short day plants in the tropical countries can be achieved. (2 marks)
7. Frost control in horticultural production. (6 marks)

**Question Two**

1. Describe the following:
2. Olericulture. (1 mark)
3. A phytotron. (2 marks)
4. Briefly discuss “transplanting” as one of the horticultural practices. (5 marks)
5. Discuss the factors that should be considered before one decides to control the environment of horticultural crops. (12 marks)

**Question Three**

1. Explain the terms “multiple cropping.” (2 marks)
2. Differentiate the term “pomology” from “arboriculture.” (2 marks)
3. Explain the role played by ornamental horticulture in the tourism industry. (4 marks)
4. Discuss the attributes of plants that one can use so as to grade horticultural crops. (4 marks)
5. Discuss the activities that led to the restoration of the development of horticultural industry immediately after the period of the dark ages. (8 marks)

**Question Four**

1. Explain how the following affects the growth and development of plants.
2. Snow. (2 marks)
3. Sleet and Hail. (2 marks)
4. Soil texture. (2 marks)
5. Soil structure. (2 marks)
6. Dew. (2 marks)
7. Explain the environmental importance of horticultural crops. (4 marks)
8. Describe the three categories of vegetable production. (6 marks)

**Question Five**

1. Give a detailed description of a low tunnel. (4 marks)
2. Discuss the following cultural practices in relation to horticultural crop management:
3. Crop rotation. (2 marks)
4. Land preparation. (6 marks)
5. Explain the factors that should be considered when determining the depth of sowing of seeds. (8 marks)

**Question Six**

1. Discuss the preventative methods of horticultural crop disease and pest management. (8 marks)
2. Briefly discuss the indicators of crop maturity in horticulture. (6 marks)
3. Explain the limitations of chemical methods of disease and pest control on horticultural crops. (6 marks)