

UNIVERSITY OF KABIANGA
UNIVERSITY EXAMINATIONS
2015/2016 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION EDUCATION,
BACHELOR OF SCIENCE IN HORTICULTURE,
AND
BACHELOR OF SCIENCE IN AGRICULTURE

**HOR 100: INTRODUCTION TO HORTICULTURAL SCIENCE AND
MANAGEMENT**

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES: Answer any FIVE questions

- Q1. (a) Explain the term "protected environment" as used in horticulture. (1 Mark)
- (b) Differentiate between the following.
- (i) A phytotron and a low tunnel (4 Marks)
- (ii) Greenhouse and a high tunnel. (4 Marks)
- (c) Describe the following structures used in horticulture production citing their uses:
- (i) Cold frame. (5 Marks)
- (ii) Lath houses. (6 Marks)
- Q2. (a) Explain the terms "landscape architecture" as used in horticulture. (2 Marks)
- (b) Briefly discuss the following:
- (i) The role played by growth regulators in horticultural production. (4 Marks) ✓
- (ii) The major branches of ornamental horticulture. (6 Marks) ✓
- (iii) Hot beds for horticultural crop production. (8 Marks) ✓

12
66
78

Q3. (a) Explain the following:

- (i) Olericulture. (2 Marks) 2
- (ii) The origin of the term "horticulture". (2 Marks) 2
- (iii) The contribution of the horticultural industry to good human health. (6 Marks) 4

(b) Briefly discuss the roles played by the following in the establishment of the horticultural

Industry:

- (i) Primitive societies that existed before the people in the Neolithic age. (2 Marks) 2
- (ii) The people of the Neolithic age. (2 Marks) 2
- (iii) Linnaeus (1707-1778). (2 Marks) 1
- (iv) Egyptians by 3000 B.C. (4 Marks) 4

Q4. (a) Describe how the following principles of landscaping can be achieved during designing of a landscape:

- (i) Contrast (2 Marks) 2
- (ii) Simplicity. (2 Marks) 1

(b) Discuss the following methods of horticultural crop disease and pest management.

- (i) Preventive methods. (8 Marks) 6
- (ii) Cultural methods. (8 Marks) 6

Q5. (a) Differentiate "perennial vegetables" from "annual vegetables". (1 Mark) 1

(b) Describe the characteristics of horticultural crops that make them distinct from other crops. (3 Marks) 3

(c) Discuss the effects of the following on the growth and development of horticultural

plants:

(i) Humidity

(3 Marks) 2

(ii) Wind

(5 Marks) 3

(iii) Biotic factors.

(8 Marks) 6 (12)

6. Briefly discuss the following:

(a) Grading of horticulture crops.

(4 Marks) 3

(b) The harvesting techniques in horticulture crop production.

(8 Marks) 2

(c) The importance of the following practices in horticultural production:

(i) Thinning.

(2 Marks) 2

(ii) Hardening-off of seedlings.

(2 Marks) 2

(iii) Nursery planting and seedling transplanting of crops.

(4 Marks) 4 (12)

19.
4
34