

CHUKA



UNIVERSITY

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**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE**

HORT 332: VEGETABLE CROPS II (INDIGENOUS)

STREAMS: BSC HORT Y3S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 4/12/2019

11.30 A.M – 1.30 P.M

INSTRUCTIONS

Answer all questions in section A and any other two questions in section B

SECTION A (30 MARKS)

1. Briefly outline the food and nutritional significance of the following African indigenous vegetables (AIV)
 - (a) Pig weed *Amaranthus* species [3 marks]
 - (b) Cow pea (*Vigna unguiculata*) [3 marks]
 - (c) *Crotolaria (Crotolaria ochroleuca)* [3 marks]
 - (d) Okra (*Abelmoschus esculentus*) [3 marks]
2. Explain the role of women in production and marketing of African indigenous vegetables. [6 marks]
3. Briefly discuss the anti-nutrient factors of *Amaranthaceae* and *solanaceae* families of African Indigenous vegetables.
4. Explain the nutritive value of the spider plant (*Gynadropsis species*). [4 marks]

SECTION B (40 MARKS): ANSWER TWO QUESTIONS

5. (a) Discuss the agro-ecological requirements of cowpea (*vigna unguiculata*) production.

[15

marks]

- (b) What are the characteristics of cowpea variety katumani? [5 marks]
6. Discuss;
- (a) Agronomic benefits of African indigenous vegetables (AIV) [10 marks]
- (b) Major constraints to production and utilization of African Indigenous vegetables in Kenya. [10 marks]
7. Discuss the following;
- (a) Ecological requirements for Okra production (*Abelmoschus esculentus*) [10 marks]
- (b) Cultural practices for black night shade production (*Esolanum nigrum*) [10 marks]
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