

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION EDUCATION 2022/ 2023 ACADEMIC YEAR

REGULAR

COURSE CODE: APB 9405

COURSE TITLE: HORTICULTURAL CROP PRODUCTION

EXAM VENUE: STREAM: BSC. (AGED)

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and B and ANY 2 Questions in section C
- 2. Candidates are advised not to write on question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A [20 MARKS] Answer ALL questions in this section

1a i. Explain the principle of organic production in horticulture.	[4 Marks]
ii. How does horticulture differ from other plant sciences?	[3 Marks]
b. Give TWO Examples of the following:	
i. Pulse vegetables	
ii. Cole crops	
iii. Temperate berries	
iv. Tropical nuts.	[4 marks]
c. Explain the role of Kenya Plant Health Inspectorate Services (KEPHI produce exports from Kenya.	S) in fresh horticultural [5 marks]
d. State FOUR harvest indices for horticulture crops.	[4 marks]
SECTION B [30 MARKS] Answer ALL questions in this section	
2a. Explain the horticultural practitioner's consideration in terms of e wildlife safety.	nvironment and [5 marks]
b. Highlight the components of integrated pest management.	[5 marks]
3. Briefly explain the effects of temperature and light on horticultural	production.
	[8 marks]
4. Explain the factors encouraging horticultural production in Ke5. Outline nutrient management techniques in horticultural production	
SECTION C [20 MARKS] Answer ANY TWO questions in this se	<u>ection</u>
6. Discuss the role of horticulture in Kenyan economy, illustrating how service industries.	w it is related to other [10 marks]
7. Describe the cultural practices, harvesting and post – harvest hand horticultural crop.	dling of a named [10 Marks]

8. Explain the following in horticultural industry:

i. Good Agricultural Practices (GAP) and its components. [5 Marks]

ii. "Pre – Cooling" in the management of horticultural produce [5Marks]