

## 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]
<ol> <li>Explain the factors encouraging horticultural production in Ke</li> <li>Outline nutrient management techniques in horticultural production</li> </ol>	, -
SECTION C [20 MARKS] Answer ANY TWO questions in this se	ection
<ol><li>Discuss the role of horticulture in Kenyan economy, illustrating how service industries.</li></ol>	v it is related to other [10 marks]
7. Describe the cultural practices, harvesting and post – harvest hand horticultural crop.	lling 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]