



**PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF SCIENCE IN HORTICULTURE	
QUALIFICATION CODE: 07BHOR	LEVEL: 7
COURSE CODE: AFP720S	COURSE NAME: APPLIED FRUIT PRODUCTION
DATE: NOVEMBER 2022	
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Dr. Grace N. Kangueehi
MODERATOR:	Dr. Fidelis N. Mwazi

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL the questions.2. Write clearly and neatly.3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. Examination question paper
2. Answering book

THIS QUESTION PAPER CONSISTS OF 1 PAGE (Excluding this front page)

Question 1

- 1.1. Your friend wants to plant tomatoes in May in Windhoek?
(i) Explain the effects of temperature on the tomato crop. (3)
(ii) Draw logical conclusion about management strategies. (5)
- 1.2. What do you understand by the term Market Share Promotion (MSP), and how does it help the Horticulture industry? (4)
- 1.3. Discuss the Namibia food safety policy and the mechanism in place to protect it. (4)
- 1.4. You are given a hectare field planted at 3 x 2 m spacing thus having 1667 trees, with a tree yield estimated at 350g. Calculate the block/field yield estimation per 4.5kg box. (5)
- 1.5. Table grapes are the main production happening in the Orange River Valley, kindly give the competitive advantage this production has. (5)
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Question 2

- 2.1. Cultivar selection is very important in crop production to assure quality production. Explain what factors must be considered when selecting a cultivar. (5)
- 2.2. Deliberate the three stages in the life span of fruits and vegetables. (6)
- 2.3. Name and explain in detail the four important biological considerations of fruit harvesting. (8)
- 2.4. A farmer needs to change from conventional to sustainable plant production.
a) Why should such a farmer take such a step? (5)
b) Discuss five management strategies underpinning sustainable plant production systems. (10)
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Question 3

- 3.1. Make a drawing that illustrate the growth, respiration and ethylene production patterns of climacteric and non-climacteric plants organs. (10)
- 3.2. Briefly describe what you understand by the term integrated fruit production and use some examples to explain the concept. (10)
- 3.3. Define fruit processing and describe the three (3) main methods of processing. (10)
- 3.4. You are given a one hectare area at Swakopmund River Plots to farm with fruits and vegetables, taking into consideration the soil and irrigation water quality decide on the fruits and vegetables that you will grow and outline your management plan. (10)
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Total Marks: 100