



**NAMIBIA 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: JANUARY 2023	
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY/SUPPLEMENTARY 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. What is integrated Fruit Production? (2)
- 1.2. List the four important biological considerations in harvesting and storage of fruits. (4)
- 1.3. What do you understand by the term Market Share Promotion (MSP), and how does it help the Horticulture industry? (4)
- 1.4. Illustrate the fresh and processed fruit industry and markets in Namibia. (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. You are given a hector 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)
- 2.3. Which Maturity index are used for fruits and vegetables harvesting? (5)
- 2.3. What do you understand by the term Irrigation scheduling and explain the different methods used in scheduling. (6)
- 2.4. Discuss the concept of Integrated pest management (IPM). (6)
- 2.5. List and elaborate the different environmental factors that accelerate or retard deterioration by directly and indirectly influencing biological factors. (8)
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Question 3

- 3.1. Discuss the physiological development stages common in fruits and vegetables. (10)
- 3.2. Briefly elaborate what you understand by the term sustainable agriculture and give the different pillars of sustainability. (10)
- 3.3. Analyze the link between sustainable plant production and soil health. (10)
- 3.4. In your own words discuss, in full, the cold storage of fruit. (10)
- 3.5. You are given a one hector 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