



**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: FPP620S	COURSE NAME: FRUIT PHYSIOLOGY AND PRODUCTION
DATE: NOVEMBER 2022	
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Dr. Grace N. Kanguuehi
MODERATOR:	Dr. Edgar Mowa

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

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- 1.1. What are the symptoms of salinity in fruit trees. (2)
- 1.2. Give four (4) objectives of pruning. (4)
- 1.3. Differentiate between Brack soil and Cation Exchange Capacity (CEC)? (4)
- 1.4. What are the characteristics that are desired in the rootstocks used for fruit trees? (4)
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[14]**Question 2**

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- 2.1. Delayed foliation is an abnormal physiological morphological condition if trees did not receive enough cold in rest. Give any four (4) symptoms of delayed foliation. (4)
- 2.2. Table grapes is the main production happening in the Orange River Valley, kindly give the competitive advantage this production has. (5)
- 2.3. Give five (5) advantages of producing crops under greenhouses or nurseries? (5)
- 2.4. Discuss the hole preparation of date plants. (5)
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[19]**Question 3**

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- 3.1. Fruit flies are among the world's most serious pests; kindly explain the damage caused by this pest. (4)
- 3.2. Give a simple classification of the different fruit types. Give an example of each. (6)
- 3.3. Make a distinction between the central leader and open center training system in apple production. (6)
- 3.4. How does soil pH affects nutrient availability, soil microbes, and root growth? (6)
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[22]**Question 4**

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- 4.1. Describe how water potential, evapotranspiration, and stomatal regulation influences transportation of water in fruit trees. (6)
- 4.2. If one were to describe the temperature requirements of fruit trees one could say that there are three basic types. Name these and give a short description of each. (9)
- 4.3. Discuss the different deciduous fruit tree development stages. (10)
- 4.4. Discuss how physical soil properties Influences the development of citrus trees. (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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[45]**Total marks: 100**