



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES AND AGRIBUSINESS

QUALIFICATION: BACHELOR OF SCIENCE IN HORTICULTURE	
QUALIFICATION CODE: 07BHOR	LEVEL: 7
COURSE CODE: AFP720S	COURSE NAME: APPLIED FRUIT PRODUCTION
DATE: NOVEMBER 2024	PAPER: 1
DURATION: 3 HOURS	MARKS: 100

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

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

PERMISSIBLE MATERIALS

1. Examination Question paper
2. Examination Answer booklet
3. Calculators

THIS QUESTION PAPER CONSISTS OF 3 PAGES (Including this front page)

QUESTION 1

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- 1.1. For any production system a producer/farmer needs to organise and manage their production optimally. What tool is needed to assist the farmer/producer in that regard and what does it entails? (3)
- 1.2. What are the characteristics that are desired in the rootstocks used for fruit trees? (4)
- 1.3. Discuss the Namibia food safety policy and the mechanism in place to protect it. (4)
- 1.4. What do you understand by the term Market Share Promotion (MSP), and how does it help the Horticulture industry? (4)
- 1.5. 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)
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{20}

QUESTION 2

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- 2.1. Deliberate the three stages in the life span of fruits and vegetables. (6)
- 2.2. Define value addition and give some advantages that come with it. (6)
- 2.3. Name and explain in detail the four important biological considerations of fruit harvesting. (8)
- 2.4. Discuss the basic harvest and post-harvest handling considerations for fresh fruits and vegetables. (10)
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{30}

QUESTION 3

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- 3.1. Explain what you understand by land use system and outline the steps involved in land use assessment. (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 main methods of processing. (10)
- 3.4. Make a drawing that illustrate the growth, respiration and ethylene production patterns of climacteric and non-climacteric plants organs. (10)

3.5. Distinguish between a local and international market and give two advantages and disadvantages of each market. (10)

{50}

Total Marks: 100