



**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**

<b>QUALIFICATION:</b> BACHELOR OF SCIENCE IN HORTICULTURE	
<b>QUALIFICATION CODE:</b> 07BHOR	<b>LEVEL:</b> 7
<b>COURSE CODE:</b> VPP620S	<b>COURSE NAME:</b> VEGETABLE PHYSIOLOGY & PRODUCTION
<b>DATE:</b> NOVEMBER 2024	<b>PAPER:</b> 1
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>FIRST OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	MR. CLIFFORD AKASHAMBATWA
<b>MODERATOR:</b>	DR. EDGAR MOWA

<b>INSTRUCTIONS</b>	
1.	Answer all the questions.
2.	Write neatly and clearly.
3.	Mark all answers clearly with their respective question numbers.
4.	All written work MUST be done in blue or black ink.
5.	No books, notes and other additional aids are allowed.

**PERMISSIBLE MATERIALS**

1. Examination Question paper
2. Examination Answer booklet

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

## Question 1

1.1. As an extension office based in Henties Bay, small scale farmers are complaining about their crops (vegies) not establishing properly, thus not been productive. What do you think could be the problem and what advice would you give to the farmers to improve production? [5]

1.2. Give soil requirements for Asparagus [5]

1.3. Give soil and climatic requirements of sweet potato [12]

1.4. Identify the vegetative propagation methods applicable to the following crops and explain your reason for the chosen form of propagation.

(1 Asparagus, 2 potato, 3 sweet potato & 4 rape) [8]

1.5. Draw a plant cell and correctly label it ( 10 marks for correct drawing & 10 for correct labelling) [20]

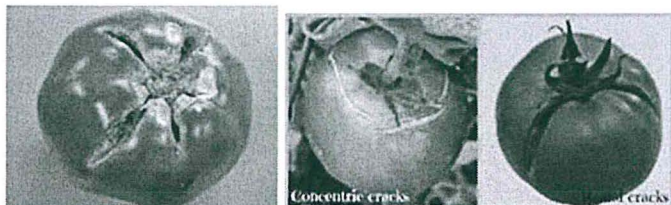
## Question 2

2.1. What role does each of the elements; NPK play in the growth of vegetable plants? [9]

2.2. There are two basic types of plant propagation in vegetable production. Name them and briefly explain them. [6]

2.3. Fully describe the climatic and soil requirements of lettuce [10]

2.4. Identify and fully explain the problem in the picture bellow, and explain how it can be prevented [10]



2.5. List the categories of vegetables under botanical classification and give two examples of crops per category. [10]

2.6. What are some of the advantages of transplanting and what time of the day should it be done? [5]

**TOTAL [100]**