



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES**

**DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES**

<b>QUALIFICATION: BACHELOR OF HORTICULTURE</b>	
<b>QUALIFICATION CODE: 07BOOR</b>	<b>LEVEL: 7</b>
<b>COURSE CODE: VPP620S</b>	<b>COURSE NAME: VEGETABLE PHYSIOLOGY &amp; PRODUCTION</b>
<b>DATE: NOVEMBER 2022</b>	
<b>DURATION: 3 HOURS</b>	<b>MARKS: 100</b>

<b>FIRST OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER(S)</b>	Dr Edgar Mowa
<b>MODERATOR:</b>	Dr Grace Kangueehi

<b>INSTRUCTIONS</b>
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 2 PAGES** (Excluding this front page)

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**Question 1**

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1.1 Define the following terminologies: (4)

- (a) Plant propagation
  - (b) Integrated Pest Management (IPM)
  - (c) Organic fertilizer-
  - (d) Parthenocarpy
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**Question 2**

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2.1 Name the six (6) categories into which vegetables can be classified [6]

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**Question 3**

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3.1 List the 16 elements required for plant growth and performance (8)

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**Question 4**

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4.1 What steps will you take to implement IPM in the Mashare Greenscheme that is under infestation of 3 pests. (12)

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**Question 5**

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5.1 What role does each of the elements; NPK play in the growth of vegetable plants? (9)

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**Question 6**

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6.1 Discuss the categories of Integrated Weed Management (IWM) program (20)

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**Question 7**

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7.1 Etunda green scheme is currently experiencing bacterial spot on their tomatoes. Describe the disease to Etunda green scheme management in terms of what causes the disease, environmental conditions which would promote the disease to thrive, symptoms of the disease on foliage and fruits, as well as the control measures to manage the disease. (6)

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**Question 8**

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8.1 Discuss why biological farming is beneficial over other forms of farming. (6)

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**Question 9**

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9.1 Which form of Nitrogen is accessible for plant use? (1)

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**Question 10**

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10.1 Discuss the climatic, soil and fertilizer/ nutritional requirements for tomato including disease and pest management (20)

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**Question 11**

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11.1 Discuss the climatic, soil and fertilizer/ nutritional requirements for cabbage including disease and pest management (20)

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