



**PAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF HEALTH, APPLIED SCIENCE AND NATURAL RESOURCES

Department of Agriculture and Natural Resources Sciences

QUALIFICATION: Bachelor of Science in Agriculture	
QUALIFICATION CODE: 07BAGA	LEVEL: NQF Level 6
COURSE: Sustainable crop production	COURSE CODE: SCP621S
DATE: November 2022	PAPER: Theory
DURATION: 3 Hours	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S):	Mr C. L. Akashambatwa
MODERATOR:	Mr. R. Kamukuenjandje

**THIS QUESTION PAPER CONSISTS OF 2 PAGES
(INCLUDING THIS FRONT PAGE)**

INSTRUCTIONS

1. Answer ALL the questions.
2. Write clearly and neatly.
3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. Examination paper.
2. Examination script.

Question 1 [38]

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

1.2. When establishing a seedbed, what factors do you have to take into considerations? And briefly explain each. [10]

1.3. What are some of the advantages of transplanting and when should it be done? [5]

1.4. Describe the soil requirements of tomato crop fully. [5]

1.5. Fully describe Blossom end rot deformation in tomato plant and how can it be controlled? [8]

Question 2 [35]

2.1. There are two basic types of plant propagation in fruit tree production. Name them and briefly explain them. [6]

2.2. Fully describe the stages of development of the deciduous fruit tree. [9]

2.3. Fully describe Banana's climatic, soil, and fertiliser requirements. [8]

2.4. Describe the sowing methods of Banana. [4]

2.5. Name the four categories of crops found under Agronomy, and list two examples of crops under each category. [8]

Question 3 [27]

3.1. A potential investor seeks your guidance on establishing a 20-thousand-hectare farm to produce maize in Arandis town of Namibia. What will be your advice to the investor? [6]

3.2. Fully describe pollination and fertilization in Zea mays. [5]

3.3. Pearl Millet is of economic value to Namibia, discuss the new varieties developed after independence and list the characteristics obtained with the improved varieties. [6]

3.4. Name and discuss various ways of obtaining nitrogen requirement in a maize field. [8]

3.5. Why is Pearl millet widely adapted to extreme environments? [2]

TOTAL MARKS [100]