



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: CPN610S	COURSE NAME: CROP PRODUCTION
SESSION: JUNE 2023	PAPER: THEORY
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Mr. C. L. Akashambatwa
MODERATOR:	Dr G. N. Kangueehi

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 3 PAGES (Including this front page)

Question 1

- 1.1. Define the term Agronomy. [2]
- 1.2. Name the four categories of crops found under Agronomy, and list two examples of crops under each category. [8]
- 1.3. Why is climate knowledge important in Agronomy sphere? [2]
- 1.4. Maize is a “controlled crop in Namibia” what does it means? [2]
- 1.5. 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? [4]

(18)

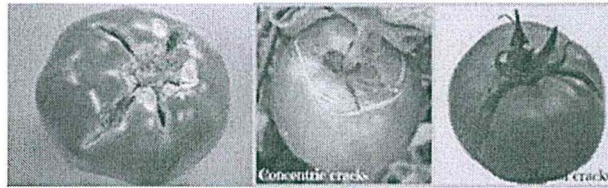
Question 2

- 2.1. Fully describe pollination and fertilization in Zea mays. [4]
- 2.2. Pearl Millet is of economic value to Namibia, discuss the new varieties developed after independence and list the characteristics obtained with the improved varieties. [4]
- 2.3. Name and discuss various ways of obtaining nitrogen requirement in a maize field. [8]
- 2.4. Briefly explain the economic importance of sunflower. [4]
- 2.5. Why is Pearl millet widely adapted to extreme environments? [3]

(23)

Question 3

3.1. Identify and fully explain the problem in the picture below and explain how it can be prevented.



[10]

3.2. What is staking in horticulture and what is its purpose?

[2]

3.3. Distinguish between deciduous and evergreen fruit trees.

[5]

3.4. Give six (6) objectives of pruning.

[6]

(23)

Question 4

4.1. Name three seedless grape cultivars produced in Namibia and mention the location of production.

[4]

4.2. What is training of a grapevine?

[5]

4.3. Differentiate between aggregate and multiple fruit and give examples of each.

[4]

4.4. List the stages of fruit development in pome and stone fruits.

[10]

4.5. What are the requirements of a successful cross pollination in fruit trees?

[4]

4.6. When is pruning of fruit trees done (in Namibia) and why during that time of the year?

[6]

4.7. Name the fruit category that originates from one ovary and give two examples of this fruit.

[3]

(36)

TOTAL [100]