



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: FPP620S	COURSE NAME: FRUIT PHYSIOLOGY AND PRODUCTION
DATE: NOVEMBER 2024	PAPER: 1
DURATION: 3 HOURS	MARKS: 100

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Dr Edgar Mowa
MODERATOR:	Dr Grace Kanguuehi

INSTRUCTIONS
<ol style="list-style-type: none">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. Calculator
2. Examination paper
3. Examination script

THIS QUESTION PAPER CONSISTS OF 3 PAGES
(Excluding This Front Page)

SECTION A: SHORT/LONG ANSWER QUESTIONS

[3 MARKS]

QUESTION 1:

Define the following terms:

- 1.1 Methoxypyrazines
- 1.2 Grafting
- 1.3 Fruit

Question 2

[2 MARKS]

2.1 Name two basic cuts of pruning.

Question 3

[2 MARKS]

3.1 How can a farmer rectify soils containing a high and low pH?

Question 4

[4 MARKS]

4.1 What are the symptoms of salinity in fruit trees?

Question 5

[4 MARKS]

5.1 The method used mostly for multiplying fruit trees is budding. Discuss the method of T budding.

Question 6

[5 MARKS]

6.1 Give the main components of the aerial part of a tree.

Question 7

[5 MARKS]

7.1 Give five (5) advantages of producing crops under greenhouses or nurseries?

Question 8**[6 MARKS]**

8.1 Discuss how Integrated Pest Management (IPM) differs from other strategies, include its historical background.

Question 9**[6 MARKS]**

9.1 Give a simple classification of the different fruit types. Give an example of each.

Question 10**[7 MARKS]**

10.1 What are the factors influencing fruit development?

Question 11**[7 MARKS]**

11.1 What are the main functions of roots on a tree?

Question 12**[9 MARKS]**

12.1 If one were to describe the temperature requirements of fruit trees one could say that there are three basic types. Name these and give a short description of each.

Question 13**[10 MARKS]**

13.1 Differentiate between the stages of fruit development between Pome and Stone fruits. (10)

Question 14

[14 MARKS]

14.1 A pensioner wants to invest their money into fruit production of guavas at a farm nearby Rundu. They want to know how pruning will be done from the time they plant the seedlings to the time they go into full production. Discuss how they should do so in seven stages.

Question 15

[16 MARKS]

15.1 Apple production is an available agri-business in SADC. In full and with your own understanding discuss the production of apples from site selection to harvesting.

END OF QUESTION PAPER