



MUAST

MARONDERA UNIVERSITY
OF AGRICULTURAL SCIENCES AND TECHNOLOGY

FACULTY OF PLANT AND ANIMAL SCIENCES AND TECHNOLOGY

DEPARTMENT OF HORTICULTURE

MAIN PAPER

COURSE: PLANT PROPAGATION AND NURSERY MANAGEMENT

CODE: MUHR207

DATE: MAY 2023

DURATION: THREE (3) HOURS

INSTRUCTIONS TO CANDIDATES

1. Answer **ALL** questions in **section A** and any **three (3)** questions in **section B**.
2. Section A carries **40 marks** and each question in section B carries **20 marks**.
3. The paper has **six (6)** questions.
4. There are **two (2)** printed pages.

SECTION A: Answer ALL questions.

Question 1

- a) Differentiate the following terms used in plant propagation:
- i. Totipotency and dedifferentiation. [4]
 - ii. Clone and zygote. [4]
 - iii. Stock plant and explant. [4]
- b) Explain seed stratification in plant propagation. [4]
- c) Describe:
- i. Stock plant selection in nursery production. [5]
 - ii. T-budding in citrus nursery culture. [5]
- d) Outline:
- i. Any three (3) marketing strategies for plant nursery products. [6]
 - ii. Any four (4) benefits of plant nursery production. [8]
- [40]**

SECTION B: Answer any three (3) questions.

Question 2

Discuss the propagation methods employed at horticultural plant nurseries. [20]

Question 3

Advise a client on the management practices for a plant nursery type of your choice. [20]

Question 4

Discuss any five (5) factors influencing rooting of a cutting. [20]

Question 5

Describe the protocol in shoot tip tissue culture. [20]

Question 6

Discuss the potential for the development of the plant nursery industry in Zimbabwe. [20]

END OF EXAMINATION PAPER!!!