

# **BINDURA UNIVERSITY OF SCIENCE EDUCATION**

**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**AGH114**

**DEPARTMENT OF CROP SCIENCE**

**BACHELOR OF AGRICULTURAL SCIENCE (HONOURS) DEGREE PART IV  
EXAMINATION**

**PRINCIPLES OF HORTICULTURE**

**3 HOURS [100 MARKS]**

## **INSTRUCTIONS**

**ANSWER ANY *FOUR* QUESTIONS. EACH QUESTION CARRIES 25 MARKS**

1. Define the following terms:
- i. Horticulture [2 marks]
  - ii. Olericulture [2 marks]
  - iii. Floriculture [2 marks]
  - iv. Viticulture [2 marks]
  - v. Pomoculture [2 marks]
- b. Suggest strategies that can be employed by the government to transform horticultural productivity for smallholder farmers in Zimbabwe [15 marks]
2. a. Discuss how the following factors affect quality of horticultural crops
- i. Management [5 marks]
  - ii. Handling [5 marks]
  - iii. Storage [5 marks]
- b. Write notes on the following
- i. Central leader system [5 marks]
  - ii. Multi leader system [5 marks]
3. Assess the impact of Covid-19 pandemic on the production of horticultural crops in Zimbabwe [25 marks]
4. Write notes on the following:
- a) Root pruning [10 marks]
  - b) Training [5 marks]
  - c) Transplanting [5 marks]
  - d) Rhizomes [5 marks]

5.     a). Discuss the principles of operation of a greenhouse [10 marks]  
       b). describe temperature control in the greenhouse [15 marks]
6. Give a detailed account on the techniques a farmer can use to control plant environment in horticulture production. [25 marks]

**End of paper**