



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF**  
**MASTER OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION**  
**FIRST SEMESTER 2023/2024**  
**[JANUARY-APRIL, 2024]**

**HORT 711: ADVANCES IN FRUIT PRODUCTION**

**STREAM: Y1 S1**

**TIME: 2 HOURS**

**DAY: THURSDAY, 9.00 A.M. – 11.00 A.M.**

**DATE: 30/05/2024**

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**INSTRUCTIONS**

- 1. Do not write anything on this question paper.**
- 2. Answer any *THREE* Questions.**

Q1. a). Discuss the fruit thinning and give examples. (10 Marks)

b). Explain the practice of smudging and discuss the specific conditions under which it might be used in fruit production and the potential benefits and drawbacks. (10 Marks)

Q2. a). Explore the concept of fruit forcing and its applications in commercial fruit production. (10 Marks)

b). Avocados are climacteric fruits. Explain the concept of climacteric respiration and its impact on avocado ripening and quality during post-harvest handling. (10 Marks)

Q3. Dragon fruit cultivation has gained significant attention in Kenya in recent years. Discuss the factors contributing to Kenya's emergence as a promising hub for dragon fruit farming. Consider geographical, climatic, and market-related factors in your analysis. (20 Marks)

Q4. Discuss sustainable practices in orchard management, including organic fruit farming, integrated pest management (IPM), and soil health preservation. (20 marks)