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(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

**MAIN CAMPUS
UNIVERSITY EXAMINATIONS**

**2021/2022 ACADEMIC YEAR (REGULAR)
SECOND YEAR SECOND SEMESTER MAIN EXAMS FOR DIPLOMA IN
HORTICULTURE**

**COURSE CODE: DAH 076
COURSE TITLE: FRUIT PRODUCTION**

DATE: APRIL-MAY, 2022 TIME:

INSTRUCTIONS TO STUDENTS

Answer all questions in section A

Answer any TWO questions in section B

Total marks=70

MMUST observes ZERO tolerance to examination cheating

SECTION A (30 MARKS)

1. Explain **five** environmental factors affecting fruit production (10 mks)
2. Discuss briefly tissues culture in banana production (10 mks)
3. Discuss **two** grafting methods in fruit propagation (10 mks)

SECTION B (40 MARKS)

4. Discuss post-harvest management in fruit crops (20 mks)
5. Discuss ripening indices in bananas and mangoes (20 mks)
6. Discuss the following management practices in fruit production (20 mks)
 - i. Pruning.
 - ii. Manure and fertilizers.
 - iii. Fruit thinning.
 - iv. Pest control.

SECTION A: Answer ALL questions)

1. a) Define the following terms citing an example;
 - i) Virulence (2mks)
 - ii) Etiology (2mks)
 - iii) Pathogenicity (2mks)
 - iv) Environmental stress (2mks)
- b) Explain alternate host, collateral host, host plant resistance and tolerance in plant pathosystems (9mks)
- c) State Koch's postulates with reference to a named plant pathogen (8 mks)
- d) Explain ways in which a plant disease pathogens affect plants (5 mks)

SECTION B: (Answer any TWO questions)

2. State five plant pathogens and for each pathogen, identify a disease it causes, symptoms and control/management measures (20mks)
3. Discuss with relevant examples, the principles of plant disease diagnostics/diagnosis (20mks)
4. Discuss the disease triangle of a named plant pathogen in Kenya with its economic importance (20mks)
5. Explain the impact of changing climates and other drivers of change on plant disease pathogens occurrence and distribution (20 Marks).



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER EXAMINATIONS

(MAIN EXAMINATION)

**FOR THE DEGREE IN AGRICULTURE, AGRIBUSINESS AND EXTENSION
MANAGEMENT**

COURSE CODE: ACR 422

COURSE TITLE: PLANT PATHOLOGY

DATE: 28th April 2022

TIME: 10-12 AM

INSTRUCTIONS:

Answer ALL questions in section A (Compulsory) and any TWO in section B.

MMUST observes ZERO tolerance to examination cheating

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