

CHUKA



UNIVERSITY

SUPPLEMENTARY / SPECIAL EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE DEGREE
IN NATURAL RESOURCES MANAGEMENT**

HORT 222– PLANT PROPAGATION

STREAMS:

TIME: 2

HOURS

**DAY/DATE: MONDAY 16/11/2020
P.M.**

2.30 P.M - 4.30

INSTRUCTIONS:

SECTION A – ANSWER ALL QUESTIONS (30 MARKS)

1.
 - a) Describe any four disadvantages of sexual propagation. (4 Marks)
 - b) Describe the general steps followed in successfully taking a stem cutting from a mother plant. (4 Marks)
2.
 - a) Explain the five major requirements for a successful grafting union. (5 Marks)
 - b) Describe the two modes of plant propagation and specify their major difference. (5 Marks)
3. Explain any 5 reasons for using vegetative propagation. (5 Marks)
4. Explain pasteurization as a media fumigation method. (7 Marks)

SECTION B – ANSWER ANY TWO QUESTIONS (40 MARKS)

- 5.
- a) Explain any four advantages of using sand as propagation media. (4 Marks)
 - b) Describe any eight characteristics of a good media for crop propagation. (16 Marks)
- 6.
- a) Describe chemical dormancy in seeds and how it can be broken. (7 Marks)
 - c) Discuss the four major factors that determine propagation success when using cutting. (13 Marks)
- 7.
- a) Describe five disadvantages of using grafting and budding as propagation methods. (10 Marks)
 - b) Describe the five major requirements for a successful grafting union. (10 Marks)
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